POCKET-BOOK

ON

FRANSPORT IN INDIA



TRANSPORT RESEARCH DIVISION

MINISTRY OF SHIPPING & TRANSPORT, NEW DELHI

THE TENE

FEB., 19#4

SYNOPSIS OF FOCKET-BOOK ON TRANSPORT IN INDIA

The publication brings together in one place, key statistics relating to all modes of transport Viz Roads and Road Transport, Railways, Ropeways, Air Transport, Portsand Shipping, Inland Water Transportand other modes of transport including pipeline and breyeles. It is an annual publication which was started in 1968 and this is the sixth issue and gives information for 1972-73.

This Pocket Book is intended to serve as a compact source of reference on the transporteconomy of India. It is divided into three parts: Part I describes the National economy and Transport resources and Part II the individual transport systems, Air, Rail, Ropeways, Road, Inland Water Transport and Coastal and Overseas Shipping, Part III deals with Plan outlays and expenditures on the different modes of transport and also gives comparative statistics on transport in different countries to the extent available. This publication, we hope, will meet the needs of those who do not have easy access to more detailed publications for reference.

N. V. A. NARASIMHAM, Director, Transport Research, Ministry of Shipping and Transport.

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CONTENTS

Page No.

STATISTICAL TABLES	٠,	(iv)
POLITICAL AND ADMINISTRATIVE FRAME-WORK		3
AIR TRANSPORT		63
RAIL TRANSPORT & ROPEWAYS		71
ROAD TRANSPORT:		
(a) Roads & Bridges		93
(b) Motor Transport Administration		141
(c) Taxation on Motor Transport		183
(d) Accidents in Transport		195
(c) Public Sector Motor Transport Industry		219
INLAND WATER TRANSPORT		247
SEA TRANSPORT:		in the second
(a) Ports and Light Houses		281
(b) Shipyards and		331
(c) Shipping Indi		355
(d) Coastal Shipi		411
ANNEXURES.		* 543
APPENDICES		591
		F .

LIST OF STATISTICAL TABLES

PART I

TRANSPORT AND NATIONAL ECONOMY SECTION 1

ECONOMIC STRUCTURE AND ACTIVITIES

Table No.	Page No.
(1) Decennial growth of population of India in the rural and urban areas	• 3,
1 (2) Population, area and administrative units-statewise	. 10 '
1 (3) Percentage distribution of villages in India by Principal mode of conveyance used to reach some nearest centres of health education, communication and administration.	:s 11
1 (4) Average distances of villages in India to nearest contres health, education and communication (All-India).	of 12
1 (5) Percentage distribution of estimated number of villages distance from the nearest centre	. 13
1 (6) Employment in the public sector	. 14.
1 (7) Employment in the private and public sectors	. 16
1 (8) Net domestic product at current and constant prices (statwise).	te- 18
1 (9) National economic structure and activities; selected indicate	es 20
SECTION 2	; ;
TRANSPORT RESOURCES	
2 (1) Roads, navigable lengths of waterways and motor vehicles road(state-wise)	on 33
2 (2) Grude oil and Product Pipe Lines in India	. 34
2 (3) Relinery Production (1965 to 1972)	35
2 (4) Betimated Industry-wise consumption of Fuel Oils	36
2: (5) Price baild up of Petroleum products as on 1-1-1973 .	37

N			Pag
2	(6)	Retail sale price of petrol and high speed diesel oil in various towns in India as on 31st December, 1972	41
2	(7)	Indexnumbers of wholesaleprices of selected commodities use in road and road transport in India	d 44
2	(8)	Ratio of stocks to Production of selected commodities	46
2	(9)	Production of rolling stock of railways in India	48
2 ((10)	Production of motor vehicles and Trailers by Types (All India)	49
2((11)	Indigenous contents of motor reliefes and engines manufac- tured in India	51
2(12)	Import of motor vehicles and spare parts (All-India)	53
2(13)	Imports of crude oil and petrolemu products during 1969-72	55
2(14)	Exports of petroleumproducts for they cars 1969 to 1972 .	56
2(15)	Grudo oil and Petroleum Products Imported during 1961 to 1972	57
		PART II	
		Transport systems	
		SECTION 3	
		ATR TRANSPORT	
3	(1)	Ticot of Air India and Indian Airlines	64
3	(2)	Passengers traffic—Domestic and International carried by Indian Air Transport Undertakings	65
3	(3)	Goodstraffic of National Air Transport Undertakings	66
3	(4)	Traffic Revenues of National Air Transport Undertakings .	67
3	(5)	International Air Traffic of India	68
		SUCTION 4	
		RAIL TRANSPORT AND ROPE-WAYS	*
4	(1)	Summary of working of railways	72
4			75
		•	

	>
Table No,	Page -
4 (3) Route kilometrage of Government railways	76
4 (4) Zoae-wise route length and running track of Government railways 5 (5) Staff employment in Government and non-Government railways 6 (6) Rolling stock owned by Government Railways 7 (7) Usage of engines, vehicles and wagons on Government railways 8 (8) Originating traffic, net tonne-kilometres and average lead for principal commodities for Government railways 9 (9) Purchase of stores by Indian Railways 9 (10) Financial results of the Working of Government Railways 9 (11) Average fares and Freights on Indian Government Railways 1 (12) Cost of operation of Rope-ways	78 80 81 83 84 85 86 87
SECTION 5	•
ROADS AND BRIDGES	
5 (1) Feed leaf Road Longths—Agency-wise 5 (2) Total length of Government Roads in India by agency in which they are vested (All-India)	103
5 (3) Road Lengths by species (4	105
The state of the s	106
	122
5 (6) Growth of Road Lengths of National Highways widths and surfaced) (State-wise)	123
(Statemental)	125 `
A AND TO Major Beatment at	320
5 (8) Number of Major Bridger on National Highways (State-wise). 5 (9) Maximum Laden weights permitted for vehicles on National Highways in States Union Territories	131
and Pariot A Cititories and Legitolisis	.132

Table		Page λο.
5(10)	Maximum Laden Weightspermitted for vehicles on State-High-	
-2	ways	134
5(11)	Number of Avenue Trees on National Highways . , .	136
5 (12)	Expenditure on Roads by States and Central Government (All-India)	137
5 (13)	Central and State Expenditure on roads compared to Central and State revenues from Road Transport (All-India)	138
	SECTION 6	
	MOTOR TRANSPORT ADMINISTRATION	
6 (1)	Growth of motor vehicles on the road in India	144
6 (2)	Total number of different motor vehicles on road at the end of 3 lst March, 1969, 1970, 1971 and 1972	146
6 (3)	Number of stage carriages on road by seating capacity	162
6 (4)	•	164
6 (5)	Number of driving licences issued (newly issued and renewed during the year ending 31st March, 1970, 1971 and 1972).	167
6 (6)	Distribution of operators according to fleet size as on 31st March, 1970, 1971 and 1972.	170
G (7)	Number of motor vehicles plying on Inter-State routes with regular temporary permits issued by each State (as consist April, 1970, 1971 and 1972).	176
6 (8)	Type of comolodities moved on arterial roads in the country and their average lead	179
6 (9)	Distribution of trips made by goods vehicles on arterial roads according to length of haulage	180
	SECTION 7	
	TAXATION ON MOTOR TRANSPORT	
7 (1)	Revenue from Road Transport in India	184
7 (2)		186
7 (3)		.07

Table	No.
7 (1) Rate of Sales Tax on Motor Vehicles and Motor Vehicles Spare Parties on 31-12-1978 (State-wise). 7 (5) Goods and Partinger Tax as on 31st March 1971 (State-wise). 7 (6) Annual Vehicle Tax on Trocks as on 31st March 1971 (State-	188 189
7 (7) Annual Vehicle Tax on Passinger buses as on 31st March, 1971 (State-wise)	192
section a	
ACCIDENTS IN TRANSPORT	
n (1) Motor Vehicle Accidents during 1971 (Month-wise)	197
Motor Vehiclet Accidents during 1971 by Class of Motor Vehicles Accidents during 1971 by Class of Motor Vehicles involved	
g (3) State-wise Rates of Accidents by class of Motor Veheiles on Rusad, 1971	201
8 (4) Mater Vehicle Accidents during 1971 by Nature of Accident	203
6 (5) Motor Vebicles Accidents during 1971 by Primary Cause of Accidents	205
- (m) Moore Vehicle Accounts during 1971 by Time of Day .	207
(7) Moss Vehicle Architests during 1971 by Condition of Mote Vehicles Involved	, 200
185 Mozer Vebble Academs in 1971 in which Commercial Veh alegater feroired -ByStatusof Certificate of Fitness	* 30á·
(b) Rate of Catagonia min Motor Voliden Accidents during 1971	
1110) State-wise Tread of Mator Vehicles Accidents 1966-1971	
Bixi) Treed in Surrousin Mater Vehicle Actidents rates per Tho estate Vehicles on Road (1986-71)	213
	216
SECUTION 9	
PUBLIC SECTOR MOTOR TRANSPORT	
of (1) Mathematical County and Goods Vehicles in India 9 (2) Marcold Lathers of Ferences Vehicles (Marcolnic).	221
is (3) Despendent arming the plate of misse affect .	22

	able Vo.		Page No.
9	(4)	Total Operations of Public Sector Road Transport Under-	224
9	(5)	Total Cost of operation on Public Sector Road Transport Undertakings	220
9	(6)	Total Cost of operation per paid Lilometro	22
9	(7)	Growth of Public Sector Bus Transport	23
9	(8)	Operations of Public Sector Bus Transport by pure aud composite service undertakings in Urban and Rural Areas.	233
9	(9)	Cost of operation of Public Sector Bus Transport	23
9	(10)	Capital employed, Employment and Diesel Consumption in Public Sector Bus Transport	236
9	(11)	Revenue and Expenditure of individual Public sector Road Transport Undertaking	238
9	(12)	Contribution of Individual Public Sector Road Transport Undertakingsto National Income	242
		SUCTION 10	
		INLAND WATER TRANSPORT	
10	(1)	Navigable Waterways of India	249
10	(2)	No. and type of Inland Water Vessels registered with the State and Central Authorities	250
0	(3)	Passenger services—Operational details of the Undertakings/ Navigation Companies—1972-1973.	256
10	(4)	Kerala State Road Transport Corporation—IWT Wing (Carrying Connects) of Rassenger Vessels) (1965-66 to 1970-71)	260
10	(5)	Kerala State Road Transport Corporation—IWT Wing-Pas- senger Traffic and Carnings there from (1965-66 to 1970-71)	261
10	(6)	Gargo Services—Operational details of the Undertakings/ Navigation Companies (1972-73)	262
ίO	(7)	Chartering by CIWTC (1972-73)	268
10	(8)	Average daily employment and annual wage bill of CIWTC (1968-1973)	269
10	(9)	Kerula State Road Transport Corporation—Employment in I.W.T.Passenger Transport (1960-71)	270

Table No.	No.
0 (10) Income and Expenditure of Central Inland Water Transport Corporation, Calcutta (1968-69 to 1971-72)	271
Q(11) Value of Fixed assets of CIWTC, Calcutta (ason 31-3-1972)	272
10(12) Iocome and Expenditure of Inland Water Transport Section Kerala State Road Transport Corporation (1965-66 to 1970- 1971)	275
10(13) Kerala State Road Transport Corporatioo—IWT Wing— Operational Costs of Inland Water Transport (1965-66 to 1970-71)	276
10(11) NetR-turn on Capital Outlay Inland Water Transport Section KSRTC (1963-64 to 1970-71)	277
SECTION 11	-
PORTS	_
11 (1) Navigational Aidson the Coast Line of Maritime States (1972-73)	286
11 (2) No of Major, Intermediate and Minor Ports to the Maritime States (1972-73)	288
11 (3) Draft, Mooring and B ribing Facilities Available at Majo Ports (as on 31-3-1973)	289
1 (1) Berths, Warehouses and Transit Sheds at Major Ports (as o 31-3-1973)	n 290
11 (5) Staff Potition at Major and Other Ports (as on 31-3-1973)	292
11 (6) No of Dock Worlers Registered with Dock Labour Boards Major Ports(1972-73),	204
11 (7) No of Ship Calls at the Major and Other Ports (1971-72 a 1972-73)	7 * 905
11 (8) Treods to Total Passenger Traffic (1960 61, 1965 66 and or wards)	1-
(1 10) Teen lun Total Proffic. D	298
(1960-61 to 1972-73) Traffic at Major and other Por	rts
11 (11) Treeds in Foreign Cargo Traffic at Major and other Po-	rts
11 (12) Carro Imports of India through Ports by Countries of Origi	. 310
11(13) Carry Experisof India Through Port by countries of Presenting (1972-73)	312
11 (14) Tura Roual Time of Sups at Muor Ports (1966-67 to 197	316
at M Hor Pons (1966-67 to 197	2-73) 318

Tab No		,	Pagi No
11(15)	Revenue Account of Income and Expenditure of Major and other Por s (1970-71to1972-73)	320
11(1	16)	Revenue Account of Income and Expenditure of Major Port by Major items(1972-73)	324
		SHIPYARDS	
		Ollar Asarono	
12	(1)	Production of Ship-Building Industry in Public Sector (1968- 69 to 1972-73)	332
12	(2)	Ships under different stage of construction in the ship-building, repairing undertakings	334
12	(3)	Time taken for construction at different stages of Ship-building in HSL	330
12	(4)	No of ludin and Poreign vessels repaired and carnings from these repairs	339
12	(5)	Fixed Assets of selected public Sector Ship-Building Under- takings	340
•		. Section 13	
		MERCHANT NAVY TRAINING	
13	(1)	Institutions for Merchant Navy Training	347
13	(2)	The state of the s	348
13	(3)	No. of Merchant Navigation Officers employed on Indian Ships during 1968 to 1971	349
13	(4)	Employment Position of Scamen registered with scamen's employment offices at Bombay and Calcutta and the number of jobs	350
13	(5)	Department-wise number of registered scamen and number of jobs (1971-73)	351
		SECTION 14	
		OVERSEAS SHIPPING	
		A WINDOWITH ASSESS F. set	
14	(1	Indian Overseas Cargo and Passenger Traffic Carried by	359

Telle No.		Post No.
14 (2)	Share of National and Toroise Shipping Undertakings in India's Oceanax Import/Export Cargo Traffic,	360
14 (3)	Share of National Vestelain the Government Overseas Bulk- Large Carried in Captered Vestels and General Cargo Carried in Lines Vestels	362
14 (4)		363
11 (5)	Growthin Nuraber and Tounanted Oppress Flori of India.	364
११ (द)	therefore of Number and Tonness of all Overseas Fleet by Trees and him of Versets	365
14 (7)	Orrepros West of lodes by type and ties	367
\$4 543	Butchbelion of Newber and Touring Vesich in the Oranseas Best of fortie by sice and age	369
15(9)	Grawth in Norther and Transact of Different types of Vessels in the Overseas Base of Ledia	371
14(70)	Company-west through modes construction as an an agent	.75 1
141133	Tarrien all pravis at on 1-1-1975	371
14(12)	the Waled Communication of the Archive Laboration of the Archive t	275
	Leiben Anter for effect of Kannet Commodities of India for barood Poorte ps Dertientings	208
\$\$(\$\$.	t Krandert of Patheon & Proper bottom. Shington from Outgons. Eins Link to the control level \$000-740, 2013-719.	
14412	Transfer of the property of the contract of th	387 1
. ,18516	A Transity Expenditors on the polest actually Verestilan area to	320 n
1381	Ticket Consider the America For reader Seaforthe Individual Thereseas Comes of Laughey Laughey Lindersaktory administra- 2072	349

Table No.		Page No.
14 (18) -	Shippin Development Fund-Annual Operations .	403
14 (19)	Shipping Development Fund—Total Funneial Assistance ex- tended to the Indigenous Shipping Industry at the end of Each Year	405
	Company-wise Loans Sanctioned by the Shipping Development Fund Committee (S.D.F.C.) since its inception upto 31-3-1972	406
	SECTION 15	
	COASTAL SHIPPING	
15 (1)	Shareof Public and Private Sector Undertakings in the Coasta l Shipping Industry	415
15 (2)	Goastal ficet owned and Coastal carge both dry and wet and passenger traffic carried by Indian Shipping Industry and share of Indian Vessels thereof.	417
15 (3)	Goastal Tanker Fleet Owned and Goastal Wet Cargo carried	418
15 (4)	Share of Indian Shipping Industry in Coastal Cargo Traffic .	419
15 (5)	Distribution of Number and Tonnage of Different types of Vessels in the Coatal Fleet of India	421
15 (6)	Distribution of Number and Tonnage of Different Sizes of Vessels in the Coastalflee t of India .	423
15 (7)	Distribution of Number and Tonnage of India Constal Ficet by Types and Sizes of Vessels	425
15 (8)	Trend in the Age Distribution of Number and Tonnage of Indian Coastal Fleet	426
15 (9)	Coastal Traffic and carnings of Indian Undertakings	427
15(10)	Growth of India's Coastal Traffic Earnings From National	428
15(11)	Trade Ranges of Indian Coastal Conference for Liner Cargo .	429
15(12)	Freight Ratesof Indian Constal Conference for Various Routes and commodities	430
	Nautical Distances between Selected Indian Ports	457
15(14)	Rail-Distances between Important Ports on the Coasts	460
15(15)	Railway Freight rates for the movement of coal, sait, cement and timber between important ports	461

x

t (

٤

PART III

SECTION 16

TRANSPORT AND FIVE YEAR PLAN

Table No.	No.
16 (1) Distribution of Five Year Plan Outlays and expenditure .	465
16 (2) Year-wise Plan Expenditure (Actual) during the Three Five Year Plans and Annual Plans 1961-67 to 1971-1972	466
16 (3) Pian Outlays and Expenditures on Transport (Ali India)	468
16 (4) Distribution of Plan Ontlays by Mode of Transport (1951 1974)	469
16 (5) Yourth Plan Outlass on Transport (State-wise) -	470
16 (6) Plan Outlays and Expenditure on Roads	472
16 (7) Plan Ontlays & Expenditure on Road Transport (Public Sec-	473
16 (8) Pian Outlay and Expenditure on Railway Development pro- grammes	474
16 (9) Plan Expenditures on Inland Water Transport (1961-1974) .	475
16(10) Plan Outlays and Expanditums on Port Development	476
16 (11) Plan Targets and Achievements for Coastal Merchant Fleet (1951-1979)	478
16 (12) Plan Targets and Activevements for Overseas Merchant Fleet (1951-1979)	479
16(13) Progress of Different Modes of Transportation (1955 and 1968-69 to 1971-72)	480
16(14) Employment in Public Sector Transport Undertakings (1965- 66 to 1971-72)	482
16 (15) Contribution of Transport Undertakings to National Income	483
SECTION 17	
INTERNATIONAL COMPARISONS	
17 (1) India's place in the world tonnage of Merchant Pleet	487
17 (2) Road Longth by surface in different countries (1972)	489
17 (3) Road ength relative to area and population to a con-	-103
ries (1972)	491

· Ta			Page No.
17	(4)	Capanditure on highways relative to national income country wise (1972)	493
	(5)	thics	491
17	(6)	Number of motor vehicles in use in certain forcin con- tries.	490
17	(7)	Number of motor vehicles relative to readlength area and nopulation (1972)	498
17	(8)	Number of motor-coaches and bases by searing capacity in European countries and United States of America	499
17	(9)	Number of goods-vehicles on road in European countries and United States of America	502
17(10)	Number of Goods road motor Vehicles classified by load capacity in certain European countries	509
17(11)	Volume of domestic intercity passenger traffic by type of Transport	512
17(12)	Volume of domestic intercity Freight Traffic by type of Transport	514
170	13)	GoodsTransport by road in certain European countries .	516
170	14)	Total number of accidents involving injuries to persons and	
		casualties	518
	15)	World Tanker Mert at the end of 1971	521
37(1		World Estimated Grade Oil Production	522
17(•	Production of coment in different countries (1966-1972) .	524
17(18)	Relative importance of the principal inland freight	526
17(1	(9)	World Motor Vehicle Registrations (1950-70)	529
17(2	(0)	Erimated Cost of Operating an Automobile—1970 (January) (Cents Fer mile Cost)	590
17 (Motor Vehicle Accidents—Number and Deaths by type of Accident 1950-1971	532
1752	(2)	Production of Motor Vehicles in certain foreign countries .	534
17(2		First Registration of Motor Vehicle in certain foreign countries	537
17(1	24)	Motor Fuel consumed in certain foreign countries	540
17(2	(5)	Example of average annual taxation of three common cate- garies of vehicles in certain foreign countries 1971	542

ANISTHES

netruse Ad.	200
I Pomulain liceting Road infloages in each Ferritor of 1 bid to give a total off lash inflictioning the endicated require ind for the whole of India for the next swenty facts.	7.4%
II The National Highways Act, 1955	- 510
III. Sammary afrecommendations afthr report of Clift nothing on road Development for India (1961-61)	557
1V. MainFinding: and recommendations of the Committee on ra-	ural 565
V. Surman of recommendation of the Study Group on Mo Vehicles Taxation	565
VI. Summary of their common lations could by the Ross l'Texacy Taxation Enquity Committee	1973 STO
VII. Summary of conclusion and recommendation male by the Signoup on Road Transport Penastring	. 514
VIII. Summary of the recommendations of Scale Group on viable	uneir, 517
IX Main anclaims and recommendations of the Committee Transport Policy and Coordination	
X. Resolution of Contral Assembly Relating to Contral Road F 1929	"out, 587
APPENDICES	
Apperdix No.	
I. Fransport Terminology	593
II. Selected Technical Papers relatingto Roads Publish Indian Roads Congress	ed by 605
III. Important Measures and Conversions	613
SOURCES OF DATA	616
Note: Means not available, —Means not.	

PART 1 TRANSPORT & NATIONAL ECONOMY

POLITICAL AND ADMINISTRATIVE FRAME-WORK

1. India is the seventh largest country in the world with a geographical area of 3°27 million square Kms Her land frontier is 15,168 kilometres long and coast-line about 5,689kilometres. The distance from North to South measures some 3,219 kilometres and East to West 2,977kilometres

India hava written Constitution which came into force on January 26, 1950. Citizens have certain Fundamental Rights; Right to Equality, Right to Treedom, Right against Exploitation, Right to Freedom of Religion, Cultural and Educational Rights, Right to property and Right to constitutional remedies. The Fundamental rights are justiciable

The Constitution lays down certain Directive principles of State Policy. Though not justiciable, they are regarded as "fundamental in the governance of the country" They seek to ensure that the State shallstrive "to promote the welfare of the people by securing and protecting as effectively, as it may socialorder in which justice—social, economic and political—shall inform all the institutions of the national life.

India's a Union of 21 Federative States and 9 centrally administered Union Territories, with the President as the Head of the Union and the Governors as the Heads of the States. The President is selected by the elected members of both Houses of Parliament and Legislative Assemblies of the States for atom of five years. Alleccentive authority of the Union, including the Supreme Command of the Defence Porces formally vests in the President and alleventive actions of the Government are taken in his name. In the exercise of his functions, the President is aided and advised by the Council of Ministers (i.e. the Cibinet) with the Prime Minister as the head. The Cabinet finally determines and lays down the policy of the Government. The Cabinet finally determines and lays down the policy of the Government. The Indian Parliament consists of two Houses. The Upper House called the Council of States (Rayya Sabin) consists of not more than 230 elected representatives of States and Union Territories and 12 members nominated for their special knowledge and practical experience in the fields of literature, secunce, art and social services. The Lower House called the House of the People (Lok Sabina) consists of not more than 250 members representing the Union Territories. All laws are enacted by Parliament, whose consent is also necessary for the levying of taxes and sund sinctioning of Government expenditure.

The States like the Centre, have a parliamentary system of government The Governor of a State is appointed by the President and is a kied and advised by a Gouncil of Ministers headed by the Chief Minister. The Council work on the principle of collective responsibility and is accountable to the Legislature of the State. Most State legislatures have, like the Union Parliament, two Houses: The Legislative Assembly and the Legislative Council.

The Supreme Court of India consists of a Chief Justice and not more than thirteen judgesappointed by the President. There is a high Court in each State which stands at the head of the States indicial administration. Each ' High Court consists of Chieffustice and a number of judges appointed by the President. The judiciary is independent of the executive and the legislature.

2. Administrative units

The principal unit of administration in Indla is the district under a Collector and District Magistrate, As Collector he is responsible for the proper Collection of revenue and for the administration of all matters connected with land: except certain technical aspects of irrigation, agriculture and forestry. As District Magistrate heisresponsiblesor the maintenance of law and order and the

The Collectorisalso the Chief Development Officer of the District and is assisted in many States by Additional Collectors and District Development or Planning Officers. District Development or Planning Committees on which allmembers of the State Legislature and Parliament from the Districts representative of Zila Parishads and Municipal Committees and leading non-official workers are represented, cosure popular association with the formulation and im-

Lucalself-governinginstitutions in India are broadly classified into two categorles urban and cural. Inthe bigetities, they are known as Corporations and in medium and small towns as Municipal Committee or Boards. and institutions looking after the civie needs of the rural areas, hitherto known as institutions toosing attretive evietneess of the rural areas, hitherto known see, the District Boards have undergone a significant chaoge in the recent past. With the introduction of dismocratic decentralisation in the States, there have been set up the Panchayatt at the village level, the Block Panchayat Samittesat. the Development Block level and the Zila Paridiads at the district level. This three-tier machinery not only looks after the civic octivities of the local level but is also associated with the preparation and execution of local develop-

Parliament has exclusive power to make laws on matters enumerated in Union List, Parliamentand also the Legislature of any Part Union Lists a make a laws on any of the matters enumerated in the Concurrent Lists. Subject to the afore-mentioned clauses the Legislature of State has exclusive to make laws for such State or any part. hereof with respect to any of the matters engineered in the State List. Parliament liat power to make law (with respect to any matter for any part of the is record of Jodia not included in the First Schadule not with standing that such matter is a matter enumerated in the State List. The matter directly relating to transport which are enumerated in the Union List in the Seventh. Schedule of the Constitution of India are:

- (1) Rallways.
- (2) Highways declared by, or under law made by Praliament to be national highways.
- (3) Martime shipping and navigation, including shipping and navigation on tidal waters; provision of education and training for the increastile matter and resulation of such education and training provided by States and other agencies.
- (4) Lighthours, including lightships, beacons and other provisions for the safety of shipping and aircraft.
- (5) Partialeleared by or underlaw made by Parliament or existing law to be inclored the constitution and powers of the port authorities therein
- (6) Port quarantine, including hospital connected therewith; seamen and marine hospitals.
- (7) Airwaysairceaft and air navigation provision of aerodromes; regulation and organisation of air traffic and of necodromes provision for neconsultant ducation and training and regulation of such education and training provided by States and other agencies.
- (6) Chiriage of presengers and goods by railways, sea of air or by national waterways in mechanically propelled vessels.
- (9) Inter-State trade and commerce.
- (10) Regulation and development of inter-State rivers and river valley to the extent to which such regulation and development under the control of the Union is declared by Parliament by law to be expedient in the public interest.
- (11) Terminal taxes on goods or passengers, carried by railway, sea or niritaxes on railway farrs and freights.
- (12) Inquiries, surveys and statistics for the purpose of any of the matter in this list.

The matters relating to transport as enumerated in the State List are as nnder :--

- (1) Communications that is to say, roads, bridges, ferries, and other means of communication not specified to the Union List; municipal tramways; ropeway; inland water-ways and traffic thereon subject 10 the provisions of Union List and Coocurrent List with regard to such waterways; vehicles other than mechanically propelled vehicles.
- (2) Taxes oo goods and passengers catried by road or on inland wattr
- (3) Taxes on vehicles, whether mechanically propelled or not, suitable forthe use on roads, including tramears subject to the provision of
- (4) Taxes on animals and boats.
- (5) Tolls.

The matters relating to transport as enumerated in the Concurrent are as follows:-

- (I) Economic and social planning.
 - (2) Ports other than those declared by or under law made by Parlia-
- (3) Shipping and navigation on ioland waterways as regerds mechanic the carriage of account the rule of the road on such waterways and the carriage of passengers and goods ooi oland waterways subject to the provision of Unioo List with respect to national waterways.
 - (4) Mechanically propelled vehicles including the principles oo which
- (5) Inquiries and statistics for the purpose of any of the matters speci-

SECTION-I ECONOMIC STRUCTURE AND ACTIVITIES

TABLE No. 1(1)

DECENNIAL GROWTH OF POPULATION OF INDIA IN THE RURAL AND URBAN AREAS

(1911-1971)

Census Rural Areas	Urban A	Arcas	All I	ndia
Year Decembal change%	(million)	Decennial change%	(million)	Decennial change%
(1)	(4)	(5)	(6)	(7)
1911:07: 225:6	26.5		252.1	
1921 222.7 () 1.3	28,7	(+) 8,3	251.4	() 0.3
1931 - 245.2 (4) 10.1	- 33.8	(+) 17.8	279.0	(+) 11.0
1941 274.4 (+) 11.9		(4),31.1	318.7	(+) 14.2
1951 298.6 (+) 8.7		(4) 41.1	361.1	(+) 13.3
1961 361.0 (+) 20.9		(4) 25.1	439.2	(4-) 21.5
1971 438.8 (+) 21.8		(+) 37.8	547.9	(+) 24.7

TABLE No. 1(2) POPULATION, AREA AND ADMINISTRATIVE UNITS STATEWISE (1971)

							1111.
State/Union Territory		opula- tion Milli- ons)	% of rural to total popula- tion	Popula- tion density per km.	Geog- raphical Area ('000 Sq. kms.)	No. of Distri- cts	No. of town
(1)		(2)	(3)	(4)	(5)	(6)	(7)
Andhra Pradesh Assam Bihar Gujarat Harjana Himachal Pradesh Jammu and Kashmir Kerals Madhya Pradesh Mahya Pradesh Maharahtra Manipur Mechalaya Mysore Nagaland Orissa Punjab Rajasthan TamilNadu Tripura Uitar Pradesh Angal.		43.5 15.0* 56.4 26.7 10.0 3.5 4.6 21.3 41.7 50.4 1.0 29.3 0.5 21.9 13.6 84.5	80·7 90·7 89·9 71·9 83·0 92·6 84·0 83·7 68·9 81·8 90·0 76·0 90·4 75·7 82·2 63·6 67·6 67·6 67·6	157 150 324 136 227 63 - 549 94 164 45 53 29 140 270 75 317 61 166	277 100 174 196 44 56 222@ 39 443 308 22 22 192 17 156 50 342 130 10 294	21 10 17 19 7 10 10 10 43 26 5 2 19 3 13 11 26 14 25 14 3	224' 74 202 216 65 36 45 38 24B 289 10 6 245 3 81 108 152 418 6 325
7 .		6-		1 503 2 503		16 12	226 29
, A .	•	547	9 6	0 16		351	3097

rudes Mizo district, now constituted as Union Territory of Mizoram-51,112 Sq. Km., the area under flegal occupation of Pakistan-

TABLE No. 1(3)

PERCENTAGE DISTRIBUTION OF VILLAGES IN INDIA BY PRINCIPAL MODES OF CONVEYANCE USED TO REACH SOME NEAREST GENTRES OF HEALTH, EDUCATION, COMMUNICATION AND ADMINISTRATION

-							
			s using			ce of	
Administrative, discontinuo di contrativo, discontinuo di communication; miles centres	Rail-way c train	. Mo- tor bus or car	Ani- mal drawn cart, cycle & rick- shaw	Wal- king	Other types	Not known	Total
(1) (2)	(3)	(4)	(5)	(6)	(7)	(8)	(ð)
Police Station 8.2	2.4	18.9	2.7	52:3	23.2	0.5	100.00
	2.5	2146	2.9	44.2	28.3	0.5	100.00
High School 10.2	ૈં'ક.5	23.2	2.7	43.8	25.6	1.2	100.00
Telegraph Office 11.5	2.3	30.8	2.1	37.9	26.5	0.4	100.00
Railway Station 20.2		41.5	3,4	30.0	22.4	2.7	100.00
Distt. Headqrts, 30.3	17.0		1.2	8,6	20,2	0,9	100.00

Sources National Sample Survey (11th round)
August, 56 Jan., 57

TABLE No. 1(4)

AVERAGE DISTANCES OF VILLAGES IN INDIA TO NEAREST GEN TRES OF HEALTH, EDUCATION AND COMMUNICATION (ALL-INDIA)

(In Kms)

Villa			Av	distance	of villages	to	
with popul			Primary School	High School	Hospital	Post Office	Tele- graph office
(1	1)		(2)	(3)	(4)	(5)	(6)
up to 200			3 6	20.9	15.8	7.7	21.7
201-500 .	•		1.9	14.8	12.7	5.1	16.7
501—1000.	•	•	1.1	14,3	13.7	5.6	15.9
1001-2000		•	9,6	11.7	12.2	3.5	15.1
2001 and ab	OYC	•	0.5	9.3	11.4	1.0	12.9
All classes	•	•	1.9	16.	1 13.8	5.8	17.9

Source:-National Sample Survey (12th round)
Teb. '57-Aug. '57.

TABLE No. 1(5)

PERCENTAGEDISTRIBUTION OF ESTINATED NUMBER OF VILLAGE BY DISTANCE FROM

• :

The state of the s	Communication and administrative Centre	strative, Centre	
Conte	Post Chari. Family Market Agri. Drink. Cold Ferti. Office, Itable, Planning culture ing. storage liser Exten. water Sion supply Office supply	i- Drink- Cold are ing storage in- water a supply	Ferti- liser Depot
	(i) (i) (i) (ii) (ii) (ii) (ii) (ii) (i	(7) (8)	ව
Within Village Within 5 Kms. Above 15 Kms;	Within Village Village 14:07 3:17 1:86 77.23 0.79 76.26 0.87 3.35 Within Kims. 67.33 27.98 119.53 43.44 13:00 84-48 2:99 18:82 Above 15 Kims.	79 76·26 0·87 00 84·48 2·99 76 41.45	3,35
Source NSS-22nd Rou	Source -NSS 22nd Round July, 1967 to June 1968, November 219.	19.	41.42

Table No. 1(6) EMPLOYMENT IN THE PUBLIC SECTOR

('000 numbers)

				('000 nı	umbers)
		At th	e end o	March		V. 65 15 1
,	1961	1966	1969		1971*	* 1972*£
(1)	(2)	(3)	(4)	(5)	(6)	(7)
A.By Branch of the Pub- lic Sector:— Central Government State Government Quasi-Government establishments Local Bodies	2090 3014 773 1173	2636 3723 1318 1701	1713 3901 1655+ 1825	2725 3997 1794. 1858	2771 4152 1929 1878	2838 4265 2163 1922
Total . B. By Industrial Classi- Scation :— Agriculture, ligantock, forestry and fidding Mining and quarrying Manufacturing Construction Electricity, gar, water in ragitary service	7050 160 129 369 603 224	9378 10 226 160 670 766	261 160 757 783	10374 264 174 782 797	276 182 806	283 255 870 915

TABLE No. 1 (6) - Could.

in	-		(2)	(3)	(4)	(5)	(6)	(7)
CALLET . A Contract	ominio Stor	rce age	94	155	264+	288	328	374
(ettit)	,	•	1724	2094	2160	2188	2216	2249
Services 7	•	•	3727	5004	5321	5475	5607	5785
Total	•		7030	9378	10095+	10374	10731 11	169@

LProvisional.

Head Banks from Private to Public Sector.

[&]quot;The sudden rise is employment in the public sector was mainly caused by the take over of cooking coal mines by the Govt. and the consignent transfer of employment from private to public sector.

^{...} Included employment data in respect of the UT of Goa, Daman and Diu-

[@]Figures for Manipur have been repeated & the figures for Mezoram pot taken into account due to non-receipt of returns.

Norn: -The figures may not necessarily add up to the total due to rounding off.

EMPLOYMENT IN THE PRIVATE AND PUBLIC SECTOR TABLE No. 1 (7)

(In lakhs)

	-								0.010	
5			1970**			1971			13/2 ×	
Š.		Public	Private	Total	Public	Private	Total	Public	Public Private Total Public Private Total Public Private Total	Total
-		-	-	-			10,	(4)	(01)	2
(1) (2)	3	3	(3) (4) (5) (6)	(3)	<u>@</u>	3	(7) (8)	(6)	(21)	
			-							
1 Plantation	11 jon		•		37.0	37.01 00.78 37.0 10.76	10.76	2.03	0.10 10.93	10.93

		200					-	
No.	Public	Private	Total	Public	Private	Total	Public	Public Private Total Public Private Total Public Private
(2)	(3)	(3) (4) (5) (6)	(5)	(9)	(7) (8)	(8)	(G)	(10)
		-						
Plantation Forestry@@		2.64 0.20 10.84 2.76 8.00 10.76	10.84	2.76	8.00	10.76	2.03	0.10
Mining and		1.77 4.30 6.07 1.02 4.10 5.92	6.07	1.02	4.10	5.92	2.55	3.50++
						•	4	

1 =	(2)	(3)	€	(1) (2) (3) (4) (5) (6)	(9)	(7)	(7) (8)	(G)	(10)
			-		-		-		
Plantation Forestry@@	: :@:	2.64	0.20	2.64 0.20 10.84		0.00	2.76 8.00 10.76	2.03	0.10
Onarrin	Outreing and	1.77	4.30	1.77 4:30 6:07 1:02 4:10 5:92	1.02	4.10	5.92	2.55	3.50++
Manufactur-	ctur.	7.02	7.02 39.00 46.82	46.82	90-9	8-06 39-70 47-76	47.76	0.70	39.70
onstruction"	ition.	7.97	7.97 1.50 9.17	24.6	00.0	0.00 1.40 10.20	10.20	9.15	1.70
lectricity, as & Water	ater	4.02	4.02 0.40 4.42	4.42	4.34	4.34 0.50 4.84	4.84	4.58	05.0

6.05 48-40 10.85

3.08 6.74

3.7

3.00 . 6.28

3.28

5.78

2.90

2.08

· Commerce . 6 Trade

					-					
£	3	(4) (2) (3) (4) (5) (6) (7) (8)	£)	9	(9)	(7)	3	(6)		(10)
Transpart & communications	olica.	21.88		22.88	1 00 22.88 22.16 1.00 23.16 9.60 64.35 56 07 10 00 66.07	1.00	23.16	22-19	0.60	23-29
Torke		103.74	67.00	130						
			200	1/-0/1	107-31	67-60	171 91	(111 go@	67-50 170-71 107-31 67-60 171 91 111 89@ 67-50@ 179-39@	79-39@
C Prov	I FIGURE	ie figures i	may not	חפרנפאאו	rify add u	ip to the	total due	L Provisional.	of off	-
T. Made	hís 11 equal	ncludes m te.	ost ofthe	plantation	onsevelue	յուց Հահ	ւշ թիդուս	non en selair	@@This includes most of the plantations excluding coffee plantation in Alich ease the corganies.	90.17.19.00
· @Fiftu Feceupi	Ja : Lesfo de r	a construc eAfurpas return.	tion pur chivebea	ticularly en repeat	on priva	ir accom	ot fs Luo izordm no	Overige in construction practicularly on prival- account is known to be inridequate. (Refiguesclore for the process of the prival and those for Mixoram not taken into account the feeling of the process of the price of the prival and the prival a	Overgein construction priticularly on private account is known to be insulequate. (Refigures for the parking the form repeated and those for Mixorain not taken into account the to non- **Includer analysis.	to non-

4-The sudden deelige in employment in the private sector was mainly caused by the takeover of sector, Includes employment datain tespect of the UT of Go1, Dunan and Diu from March, 1970 onwards.

TABLE No. 1(0)

NET DOMESTIC PRODUCT AT CURRENT AND CONSTANT PRICES
(STATE-NISE)

(Rs. in Abla)

State		196	5-66	1968.	69	1970-	71
o (a)	Cit	At rent rices	At constant o prices		At onstant prices	At current r prices	At onstant prices
(1)		(2)	(3)	(4)	(5)	(6)	(7)
Andhra Pradesh@		15-21	10 83	19 98	11 20	23.46	12-89
Assam*	•	5-61	3.70	8-10	4.20	8-17	4-27 (Base- 69-70
Biliar@		16-47	10 97	21-46	11.51	21-93	11-2: (Pas-
Gujarat @ ,	٠	11.46	8 67	15-82	9-14	20 84	11.2
J. & K. @ .	•	1-43	1.80	2-15	_		
Haryana @	•	3.89	2.75	5 95	3-31	8.21	4.3
Himachal Pradesh @	•	0 6	5 0.40 (Base- 50-51.)	,,	1.05	,.	1-1
Kerals @ .		7 8			5.28	3 12-44	
Madhya Pradesh £		12 5	9 8-12				
Maharashtra @ .		23.5	5 17-0				•
Mysore ££	•	10-1	2 6.3	_			

TABLE No. 1(8)-Conid.

(2)	(3)	(4)	(5)	(6)	(7)
6-33	4.49	9.36	5-21	9·91 (B	5·57 ase— (9-70)
7-15	5.00	12.37	6.32	19-68	6·81 3ase— 69-70)
8.45	5.33	10.15	6.06	14.88	7.59
15.87	3 19 ·RR	21.00	14.34	26.49	15.99
	49.57	40.22	21.67	45-80	24.21
16.07	.13.14	20.72	14.09	23.02	14.89
			0.25	0.54	0.23
3.24	2 54	4.62	2.94	5.66	3.23
	. (1 4)	0.71	0.96	0.76	0·38 نــ
	6-33 7-15 8-45 15-87 29-66 16-07 0-33 3-24	6-33 4-49 7-15 5-00 8-45 5-33 15-87 12-88 29-66 19-96 16-07 13-14 0-33 0-22 3-24 2-54 0-46 0-35	6.33 4.49 9.36 7.15 5.00 12.37 8.45 5.33 10.15 15.87 12.88 21.00 29.66 19.96 40.22 16.07 13.14 20.72 0.33 0.22 0.59 31.24 21.54 4.62 0.46 0.35 0.71	6.33 4.49 9.36 5.21 7.15 5.00 12.37 6.32 3.45 5.33 10.15 6.06 15.87 12.88 21.00 14.34 29.66 19.96 40.22 21.67 16.07 13.14 20.72 14.09 0.33 0.22 0.59 0.25 3.24 22.54 4.62 2.94 0.46 0.35 0.71 0.96	(2) (3) (4) (2) (4) (2) (4) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4

[@]For Constant Prices (Base : 1960-61).

Norn.—Owing to the differences in concepts, methodology and source material used the figures for different states are not strictly comparable.

^{*}For Constant prices (Base : 1948-49).

LFor constant prices (Base 1 : 1952-53).

LEFor constant prices (Base : 1956-57).

^{**}For constant prices (Base : 1954-55).

(1950-51-100) NATIONAL ECONOMIC STRUCTURE AND ACTIVITIES—SELECTED INDICES LABLE No. 1(9)

					000.	1067	1068-	1969-	1970-
Item	1930	1955- 1956	1960- 1)61	1966-	1967	1960	1969	1970	1971
		1	(3)	3	9	(3)	(g)	ව	(10
Ξ	9	3	3					_	-

141.0 148.1

:

120.7# 190.6

110 0 135.1

72 7 100 0 153.8 152.6 151.4 161.1 172.5 180 8

141.6		. 100.0 113.0 113.7 125.3* 128 3*	,07.70		166.0*
2000	0.00	125.3*			160.3
	107.3 119 1 192.5 155.5 150.5	111.7*		100 0 101:3 100:3- 101:3- 10:0:	137.7*
	132.3	113.0		01.01	139.2
,	119	0.001		0 001	140.1
	107-3	•		:	122.2
•	:	:		:	100.0
1 Main Economia	Population (a)	duck (Revised se-	Per Capita Not Na-	vised S ries) (b) .	Agricultural Produc- 100.0 122.2 140.7 139.2 137.7* 160.5* 166.0*

· Provisional.

:

Industrial Produc-

... Not available.

⁽¹⁾ Indices are based on inid-year estimates 1.c. on 1-7-50 for 1950-51,

⁽a) Pigures relate to calendar years with 1960-100. Indices from 1960 to 1969 are based on regular monthly items while those for year upto 1960 (base-year) include additional items not covered in monthly index. (b) At 1960-61 Prices,

`	1(9)-Contd.
	oN
	Tante

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Item	930 -	1955 -	1961	1930 - 1935 - 1960 - 1965 - 1966 - 1967 - 1968 - 1970 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 19	1966-	1967- 1968	1960-	1970	1976-
1	100					1	á	ε	(01)
. (1)	3	3	æ ,	(2) (3) (4) (5) (6) (7)	9	(2)	(0)		
		2.00	111.7	00.7 111.7 147.3 167.7 187 2 185-1 192-6 202-7	167.7	187 2	182-1	192.0	202-7
Wholesale Prices .	2-001	, 70	:					170,0	951.6
	9	0.1.1	9-171	. A. A. 121.6 165.7 187.3 208.8207.8(d)210 0(c)	187.3	208-820	7-8(a)21	(5)0 0	
(Working Class)	0.001		4.5.4	100.0 31 914.4 319.6@ 308.8 293.5 241.1	319.60	308.8	293+5	241.1	158-7
	100.0	101	2571		103	199.6	226-2	235-3	162.3
٠	100 0	99+3	109.9	100 0 99.3 109.9 131.0 132.0 1001	135 0	3			
	100 0	110 0	1 52-3	100 0 110 0 112.3 221.7 215.5 265.4 286.7 316.5 353.9	215.3	265.4	286.7	316.5	353.9 9
Outlay on public Sector (Under 5 vearplan) %		236-5	412.6	236.5 412.6 808.4 833 8 803.1 915.2 810.6 1,017.9	833 8	1.608	915.2	310.6	1,017.9
Il Economic Struc-									
ture			119.0	113.6 113.0 114.7* 115.6* 117.7* 115.8* 117.1*	115.6*	117.7	115-8	117-1	:
rea shown (net)	100.0	9-801	7.711	:					9
Macricity Installed 100 0 148 6 245.8 439.5 195 7 573 9 621.7" 613.9" 708.7	0 001	148 6	245-8	439.5	193 7	573 9	621.7	6.819	7.00.1
Capacity 191			-						00

100.0 116.4 182.3 230.6 339.8 356.1 370.8

Rallway-Capital

398-2

382 0

070.

			-			-		500	-0/61
Frien 1950 1955 1960 1965 1967 1960 1960 1970 1971	0261	1935-	1960-	1963	1966-	1967	1969	1970	1261
		,,						3	(01)
35	3	(3) (4) (5) (6) (7) (0)	3	છ	9	3	e	3	
3	•								
William Route		4.601 7.00.4 100.2 109.4 109.7 109.4	,		107.7	100.2	1.001	100.7	109.4
Kilometros	100.0	6.101	103-9	/./01					
25.nd Transport	٠			7.00	14.1.2	149.7	148.6*	1-18-4	:
L'Homelves of roads	0.001	103.7	1.0.1					-	

: O Value agues for April. May 1966 have been converted into devalued rupee. C Including Re-exports.

.96 1951-52-100.

(i) Vigires relate to calendar years upto 1956 and financial year from 1937-58 onwards with base 1950-100.

(d) Averige bised on mouths fraces in the interim series and 8 months figures as estimated from new series of index od base 1960-100.

.. (e) Ayerage based on figures as estimated from the new series of index on base 1960-100.

... Not Available,

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Item	1950- 1955-	}	1950- 1951	1955- 1956	1950- 1955- 1966- 1967- 1968- 1951 1956 1967 1968 1969	1967- 1958	1968- 1969	1969- 1	1970-
				1		1	10,	(6)	101
3	(3)	3	(+)	(2)	<u>(9</u>	E)	(o)		
(3)			1	1			ı		
Economic Structure-(Con d.)	(Con	(7)						~~	
Road Transport- Expenditure on Roads	100.0	238-4	313.4	521 2	100.0 230.4, 316.4 521 2 481.2 515.6 569.703 581.80	515.6	569.7	3 581 8	•
Road Transport— Numbe of Motor Veh, der(h)		100.0 138.9 216.9	216.9	358 8	388.6* 435.0* 476 2* 521 1*	435.0*	476 2*	521 1	:
Shipping—Gross Registered Ton- nage (100 G. R. T. and above (j)		152.4	230-6	458 7	100.0 152-4 230-6 458 7 482.9	517.6	517.6 576.6 613 6	613 6	:
Fosts and Tele- graphs—Number of Post Offices		. (23.8	138.6	168.7	100.0 (23.8 138.6 168.7 174.5 172.5 182.4 187.2	172.5	182-4	187-2	193-5
. verse whiele faxed and tax exempted during has quarter of financial year 1953-54.	axed and	tax exem	pted dar	ing last q	uarter of	Basacial	year 195	3-54.	

h Motorvehiciciaxeu and

... Not Available

i Rigares relate to calendar years upto 1956 and financial years from 1957-58 onwards with base 1950-8100.

team state of the	1930-	1955- 1956	1960-	1930- 1935- 1960- 1965- 1966- 1967- 1968- 1969- 1970-	1966-	1367-	6961 -8961	1969-	1970-
(n)	(4) (3) (4)	3	€	গ্র	(ž) (9) (S)	£	(8)	(6)	(10)
Posts and Tele-			۲.						
Ruphs-Sumber		157.4	225.6	100.0 157.4 225.6 285.7 317.6 294.4 301.3 308.5 320.8	317.6	\$• \$68	301.3	308.5	320.8
III Economic Activity	٠.		-				1		:
Electricity Genera-	100.0	163.9	306.1	100.0 163.9 306.1 388.6 616.2 689.2 785.4	616-2	689.2	785-4	856.5	:
Mineral Produc-			- !		0	^ O	0.55.0	286.0 293.0	293 •0
neral Output (3)	;	:	100.0	0.007 0.667 0.007 0.821 0.001	0.002	2	200		
Despatches of coal	0.001	100.0 126.9		1,76-7 253-0 256-3 , 256-5	256-3	. 256-5	272.1	277.1	275-2
Tanner Sens	0.001	100.0 135.0	198.7	261.9 264.2 269.3	264.2	269.3	283.4	290-5 299-5	238-5
Railways - Patson-	0.001	93-8	1.16-4	93-8 116-4 144-3 153-0 160-3	153.0	160+3	0.091	163.6 176.4	1.76.4
Railways Coods	\$00.0	124.3	168-1	124-5 168-1 217-0 216-0 210-6 - 217-0	216.0	210-6	317.0	222-3-309-6	309-8
Railways-Passen-	0.001		123-4	99-2 123-4 160-9 169-2 174-0 170-5 190-2 196-	2.691	0.521	170-5	150.2	の場合
			,	The same of the fall of the		-	-	-	

15.00

TABLE No. 1(9)-Gontd.

1	65
	201.2
	127 3
ty (Contd.)	100.0 127 3 201.2 3
le Activi	-Goods
III Economic Activity (Confd.)	Railways Goods .

324-1 222:1 13376 100 0 109-6 Railwry-Passen-Aviation-Passenger garalogs

100.0 101 0 2112 gerearned (intercarried (internal) Aviation-I're ght nal)(1)

99-1 100.0 122.9

3716 416.2 497.2

335-2 232,3

350 4

255-6

114.1 430.20 282-6 298, 1

(G E)

1970

918 1 1067 0 1122-0 1451-2 1668 7 577-2 677 2 700 6 235.4 40.5 392.8 268-2 1366 1473

45.5

50.3

37.8

33.4

51.8

227.5 221,4

241-3

100.0 127.5 176.0 223.2 242.8

handled at Major, Tourism-No. of

ports .

Shipping-Caro

. Not Available.

25

135 3 132.6*

112 3

Average daily Employment in all minos(1)

Railways

(1) Pigures relate to calendar? year with buse 1950-100

147 6

148 2

1.18 5

117 2

126 0

8788

731.4

n polyment in Ralbarra

								-	
Kem	11.61 0561	1955	1960	1965	1966- 1967	1930- 1935- 1900- 1968- 1966- 1967- 1968- 1969- 1970 1971 1936 1964 1966 1967 1960 1969 1970	1968- 1969-	1969-	1970
(1)	(3)		(3) (4) (5)	(3)	(g)	3	(0)	(6)	(10)
III. Econonila Activity—(Conid.)	tivley—(C	'onid.)							
Estimated Imploy- ment in Fabile, Se- ctor (i)		:	100.0	131+5	1 10-9	100.0 131.5 110.9 144.7 117.2 131.6 135.8	117.2	131.6	155.8
Estimated Employ- mentin Privite Se- ctor(L)	:	:	100.0	120.0	133.3	100.0 120.0 133.3 130.0 128.6 133.3 132.9	128.6	133.3	132 9
Clentral Govt. Re-	100.0		216-2	118.6 216.2 571.7 609.4	609.4		629.2* 680.0* 716 0* 811.1	116 04	911.1
Contral Govt. Ev-		1.471 0.001	238.3	238-3 577-1 617-5	617.5	706.7	706.7* 772.8	837.3* 903.0	903.0
Public debit of Cen- tral Government .		127.0	250.0	100.0 127.0 250.0 130.0 520.3	520.3	582.1	620.6	645.5 695.7	695.7
Nat Domestle Pro- duct by Agr cul- ture, Animal Flus- bandry ctc (Revi- eed Sures)(1)	:	:	100.0 131.8	131.1	*	94.14 110.64 110.6. 116.24	.9+011	116.2*	:

Irem	1950- 1951	1953- 1956	1955- 1960- 1965- 1956 1961 1966	1 <i>965-</i> 1 <i>966</i>	1966-	1962 - 1967. 1967 - 1968	1°68. 1969	1969- 1970	1970- 1971
(1)	(2)	€	(3) (4) (5) (6)	3	i	3	(8)	6	(10)
II Economic Activity-(Contd.)	-(Contd.	_							
Net Demestic Pro- ductifrom Mining, Manu acturing and small enterprises (Revised Stries)(1)	:	. :	100.0	134.1	100.0 134.£ 136.7* 142.1* 146.6* 151.7*	142.1	146.6*	156.7	
Net Domestic Pro- duct from Comm- erce, Transport		,				!			:
, uo11	:	:	100 0	131.7	100 0 131-7 135-5* 140-7* 146 5* 154 2*	1 10.7*	1 16 5*	154 2	
Net National Pro-	:	:	133 0•	142.8*	142.8* 151.4*	159-3*	•		
Series)(I)	:	;	100.0	132.6					

@Firutes relates to calender year with buse 1960 = 100, Not available.

(k) Figures relate to calender years with 1961.=100. Provisional. *Base 1951-52.=10b

(tem	1930	261	61 5	50. 1	963-	1966- 1967	1930- 1935- 1960- 1963- 1966- 1967- 1969- 1931 1936 1961 1966 1967 1969 1969	6961 -8961	1969- 1970	1970 1971
(1)	ĉ	(2)	(3) (4) (5) (6) (7)	9	3	9	3	(8)	(6)	(10)
III. Economia Activity — (Contd.) Not National Pro- duct alterrentpri- cv. (R.vinad 5. ries)	ley(Cor	1.	100	1 5	- 5	179.8*	313.1	100 0 155 1 179.8* 213.4 215 7* 234 5*	- 2315	:
Parenputa Net Na- tfonal Product is current prices (Re- vised Series)	٠	•	100.0	139	7	57 7*	183.1•	100.0 139 7 157 7* 183.1* 181.1* 192.1*	192.5	:
Gross Capital Fx- pendibure of Public							-			`
rent prices (Icevi-		٠	0 001	178	6	*6.19	100 0 178 9 161.9* 187.4* 180.7	180.7	•	:
Unit Value Index of imports	100.0	2.15	57 8	57 8 62 6		93.2	92.2 81.9 81.9	0.18	84.3	88.6
Quantum Index of Imports	1 0.001	₹ 60	168.4	207	9	0.96	3.815	of 100.0 109 2 168.4 20.7 6 196.0 218.4 198.7 168.4	168.1	167.1
Unit vilue Index of Exports	0.001	93.3	103.8	108	9	62.5	162.5	100.0 93.3 105.6 108.6 162.5 162.5 159.6 164.1 166.3	1041	166.3

TABLE No. 1(9) Confd.

1970	60		145-7		(<u>)</u>			
1970	6		100-0 101-0 95-2 118-1 113-3 116-2 135-2 136-2 145-7		109.0 17.2 1006.7 1259.1 2087.9 2067.6 930.6 557.8 61.9			
1968	£		135.2		J.			
1967. 1968	(3)		116-2		2067:6•			
1965- 1967	(2) (3) (4) (5) (6) (7) (9)		113-3		2087:9*			
1965	(3)		118-1		1259-1			
1961	€.		95.2		(jeg 1,2			
1955	(3)	4.)	101.0		17.2			
1950	(3)	r(Can	100.0	, ·	0.001			-
ltem (950-11955-11960-11905-1966-1967-1967-1969-1969-1970-1970-	ϕ	III. Economic Activity-(Cand.)	nantum Index of	Balance of Pay-	m 2 .	Provisional.	.Not available,	
		in	ÖΩ.	e e		,		

SECTION 2: TRANSPORT RESOURCES

TABLE No. 2(1)

ROADS, NAVIGABLE LENGTHS OF WATERWAYS AND MOTOR

VERIGLES ON ROAD (STATE-WISE)

	Navigable Ignsth	road	Buses, G Vehicles (onds & Min as on 31st A	scellaneous Larch 1971
State	of rivers (& canals (In Kms.)	(In Rms.) At on 31-3-72	Buses	Goods Vehicles	Misc. Vehicles
William P	(2)	(3)	(4)	(5)	(6)
Andhra Pradesh	1999	, 48120	7055	19703	13338
Assam	1983	6609	2659	14679	7240
Bihar.	1262	39922	1522	16237	4782
Gularat	286	21898	. 5503	32414	14069
Karoataka	. 444	54903	6660	19720	10034
Kerala	1540	.43364	6563	13162	3360
Manipur		1056	230	795	199
Maharashira .	501	46371	10739	58361	18195
Nagaland		92B.	. 70	1.124	81
Onsa	985	10827	1861	8311	2892
Tamil Nadú	216	52644	7534	17600	3851
Uttar Pradesh	2141	36437	(8139)	(25740)	(538G)
West Bengal 2 .	2337	20168	(8700)	(35368)	(18820)

Note: Figures in brackets are estimaved.

Table No. 2(2)

CRUDE OIL & PRODUCT PIPE LINES IN INDIA

Pipe Lines					Le:	ngth I Kms.) (Ir	lametre Inches)
(1)					((2)	(3)
I. Crude Pipelmer (i) Durboi OilField—Digboi (ii) Digboi OilField—Digboi (iii) Nahorkatiya-Gauhati (iv) Gauhati-Barauni (iv) Ankteshwar-Koyali (iv) Lakwa-Moran (ivi) Ralol-Nawaraun (ivii) Nawagaun-Koyali (ix) Nahorkatiya-Digboi (x) Haldia-Barauni Total Crude Pipe Lines II. Pročust Pipelines	Re	Enery finery	•	•	•	12 11 401 756 98 17 55 80 31 524 1,985	6 14 14 14 12.75 12.75 12.75
(i) Digboi Refinery-Tinsuk's (ii) Digboi Refinery-Tinsuk's (iii) Digboi Refinery-Tinsuk's (iv) Gauhatt-Siliguri (v) Barauni-Kanpur (vi) Koyali-Ahmedabad (vii) Haldia-Maurigram. Tatal Product Pipelines	a :	•	•		:	34 37 34 425 668 114 118	8,62 12,75
III. Gas Pipelires (i) Cambay-Dhuwaran (ii) Ankleshwar-Uttaran (iii) Ankleshwar-Barodz Toral Gas Pipelines Tetal (I+II+III)	:	•		:	:	25 42 98 165 3,580	14 16 14

Somer: -Indian Petroleum and Chemicals Statistics-1972.

Table No. 2(3)
REFINERY PRODUCTION_1955 TO 1972

(connect)

Product	1965	1970	1971	1972
海点。(i)	(2)	(3)	(4)	(5)
I. Light Distillates	1657	3014	3087	3165
II. Middle Distillates	4122	8535	9368	9400
III. Heavy Ends.	3334	5628	5774	5639
1. Furnace Oil	2352	3117 .	2910	2308
1. 2. L.S.H.S.	31	928	1006	1091
3. H. H. Stork	235	194	182	289
4. Lub. Oils@	42	, 236	218	, . 308
5. Bitumen	549	765	982	1090
6 Petroleum Coke	81	149	. 145	132
7. Wax	40	, 87	. 39	51
8. Others	4	. 202	292	370
IV. Crude Throughput	9754.	, 18459	19588	19672

[@]Excluding production of Lube Oil by M/s Lube India Ltd.

Table No. 2(4)
ESTIMATED INDUSTRY-WISE CONSUMPTION OF FUEL UILS

		197)		1971	
In Justry	Consump- tion ('000 tonnes)		% to total	Const	1	% to total
(1)		(2)	(3)	(4)	(5)
Transport:						
Road Transport		3	0.1		13	0.3
Railways		55	1.2		57	1.1
Waterways:		424	9.1		449	9,0
Coastal & Inland		198	4.3	3	245	4.9
International Bunkers .		226	4.		204	4.1
Total Transpor		482	10.	4 .	519	10.4
Agricultural Plantation Power Generation Iron & Steel Textile Gement Geramics & Glass & Allied Industr uminium & Querrying thers	ies	178 1218 311 590 129 155 493 90 31 4	2 0 0 5 1 8 6	2 7 7 8 8 5	199 1289 415 524 148 202 495 143 120 41 52 248 579	4.0 25.9 8.5 10.5 10.5 4.1 9.9 2.4 0.8 1.1 5.0
TOTAL.		465	1 100	,0	4974	100.0

Source :- Indian Petroleum & Chemicals Statistics-1972.

TABLE No. 2(5)

(D. 18 T)

PRICE BUILD-UP OF PETROLEUM PRODUCTS AS ON 1-1-1973

<u>용 에 간입다.</u>				(R	s./K.L.)
	Bombay	Madras	Delhi	Kanpur	Cal- cutta
(i)	(2)	(3)	(4)	(5)	(6)
	1. Moto	r Spirit			
Ex. M.I. Rate.	1205.03 1	213.87 1	205.03	1205.03	1228.08
State Surcharge		10.00	-	14.00	5.00
Railway Freight			87.40	92.82	-
Delivery charges within FDZ	. 11.36	11.36	11.36	11.36	11.36
Transportation charges .	. –				2.88
for mean distance					
Octroi/Local/Entry Tax	25.00	-	-	0.89	20.00
Net delivered rate exclusive o sales tax and dealers commi- ations	f 1241.39	1235.23	1303.79	1324.10	1267.32
Sales tax inclusive of surcharge	136.55	126.00	. 93.10	100.00	150.00
-Dealers commission					
Selling price to consumers	1419,74	1403.03	1438,69	1465.90	1459.12
Retail selling price per litre	1,43	1.41	· 41.44	1.47	1.46
	2. High Spe	ed Diesel			
Ex. M. I. Rate	708.47	719.89	708.47	708.47	720.66
State Surcharge	ب ہُرا ڈرو	20.00	~ .	كوفرين	: 5.00
Railway Freight	بعشدارا أروا		. 62.97	66,19	
Delivery charges within FDZ	7.27	7.27	7.27	7.27	7.27
Transportation charges for me	an S		refiles t springer	in Graph	2.88

TABLE No. 2(5)_Corld.

(1)		(2)	(3)	(4	(5)	(6)
Octroi/Local/Entry/S.S B T. Ta	x	15.00		4.68	1.05	20.00
Net delivered rate exclusive of salestax & dealers commussion	f	730.74	717.16	783.39	782.98	755.81
Sales tax inclusive of surcharge		65.77	105,00	55.94	70.00	100.00
Dealers commission		17.60	17.60	17.60	17,60	17.60
Service Charges						20,00
Selling price to consumers .		814.11	869.76	856,93	870.58	893.41
Retail selling price per litre		0.83	0.87@	0.86	0.88	0.90

3. Light Diesel Oil

Ex. M.I. Rate .	•	•		345.66	360.15	345.66	345.66	358.27
State Surcharge	•	•	•		10.00			-
Railway freight		•	•			64.69	68,24	
Delivery charges wit	hin	FDZ		7.00	-	7.00	7.00	
Octroi/Local/Entry				10.00		4.82	1.09	20.00
Net delivered rate sale tax & dealers	. 6	xclusive	٥ŧ			-		20.00
						422.37	421.99	378.27
Sales tax inclusive o		•	•	18.13	105.00	21.54	70.00	100,00
Dealers commission			•	6.60	6.60	6,60	6.60	6.60
Transportation char	ges		•					12.00
Selling price to ear	เราเก	ners		387.39	481.75	450,51	498.59	496.87
Retail selling price	pe	r litre	٠	+	+	0.45	0.51	
							- 42.4	7

· Marine and American					
A CONTRACTOR OF THE PARTY OF TH	(2)	(3)	(4)	(5)	(6)
	4. Furnes	tı Oil			
Ex.M.I.Rate	. 232.78	247.50	232,78	232.78	246.53
State, surcharge		30.00	~~		
Railway freight			69.80	73.46	
Delivery charges within FDZ	. 6.25	6,25	6,25	6.25	6.25
Octroi/Local/Entry S.S.B.T. Ta	× 13.97		5.18		20.00
" 49024 GC IFFERE water awaitantee at	••				
", " cury of or digited commission	. 254.00	283,75	314.01	313.65	
" "lestax inclusive of surcharge	. 12.70	20.85	16.01	10.98	16.70
Service charges	·				9.00
	266.70	304.60	330,02	324.63	298,48
Retail Selling price per 2001ite	cs , - -	68.00	+	+	+
그런 얼마가 가게 하다면서	5. Subcrior	Kerosene			
医多类性 化二氯甲二甲基酚	15,200	20000000			
Excht.I. Rate	1000	,;			00
State surcharge	310.51	550.93.	540.51	340.51	253.09
Railway freight	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20.00		***	-
Delivery charges within FDZ		****	55,31	58.00	
OctroilLocallEntry/S.S.B.T. Tax		, '' , 💳 '	7,00	,	. ,
Not delivered rate evelusive al	ともくちょう	· (12.50.,	0.99	
Sales Tax & Dialers Commission	557:51	570,93 6	15.32. 6	06.50 5	55.09
Sales Tax inclusive of surcharge	16.73	29.97	(H. 3. m.)	45.49	28.31
Dealers commission	🖳 7.70 ·	7.70	7.70	7.70	7.70
B.D.A.	1 13 1 min	16 2 (والمركز للمشرون		3,30
Godown charges	. « منظر » کی	ه است. درا کمیسه می آره	والمراكبة المساولات	ا (الشو ر):	6.60.
The state of the s			13.14	44 9. 3 1	<u> </u>
	36				
THE PERSON OF TH	·	J 17			

TABLE No. 2(5)-Cor'd.

(1)		(2)	(3)	(4)	(5)	(6)
Fransportation charges						7.99
Dealerss perce to retailers		531.94	611.60	623.02	659.69	608.99
Retail saling price per litt	re	0 61	0.65	0.65	0.71	0.65
Sell'ag price to comumers		531.94	611 60	623.02	659.69	605.30
	6 4	Assation	Turbire fi	ue l		
Ex. M.I.Rate		515.94	535 30	515.94	515.94	531.13
Railwa, Freight		-		59,13	63.40	, –
Airfield charges .		24.44	24 44	24.44	41.94	24.44
Octros/Local/Entry/S S.E	T Tax	10.00		12.50	_	20.00*
Not delivered rate exclusives sales tax	ine of	550 38	559.74	612 01	621.28	578.57
Sales* Taxinclusive of .	u-cha-ge	126 59	126.00	15.70	* 100.00	120.00
Retail selling price to co	ากซเตาคาร	676.97	685 74	655 71	791.28	698.37

[@]Plus 2 ap service charges being recovered by same dealers +Retail price not given/fixed.

^{*}Aviation fuel sales to international flights are exempted from sales tax entry tax.

Solvee —Indian Petrol-um and Chemical Statistics-1972.

TABLE No. 2(6)

RETAIL SALE PRICE OF PETROL & HSD IN VARIOUS TOWNS IN INDIA AS ON 31-12 1972

			s						etailPump iclusive of
4 ,-			~					Motor Spirit (Rs)	H S.D (Rs.)
	((1)		·····			 	 (2)	(3)
Ahmenbad			•	•	•			1301.51	781.95
Ajmer								1338.52	797.04
Allahabad								1350 13	785 27
Ambala (c	ity)				,			1364.14	815.41
Amritsar .	,							1376.22	823.77
Agartala								1328 47	845.93
Brakalchat			•					1328 47	785.18
Bishnath C	liara	ıΙι						1328 47	768.91
Bangalore							•	1329.71	787 61
Bareilly .								1374.12	806.29
Bhopal .		•	•			•		1365.73	825.21
Bhuj .			•	*				1292,43	787.28
Bombay .		• ້	•					1283,19	748,34
Calcutta .		þ	•					1309.12	733.41
Coch'n .			•					1267.61	785.05
Combatore		•	•		•	•		1294.60	774.40
Suttack .		•	•	•	٠			1317.12	782.00

TABLE No 2 (6)-Contd.

		(1)						(2)		(3)
Delhi .									1345.59	800.99
Dhallı .	·								1452.12	881.52
Dhubri .									1328.47	783.78
Dibrugarh									1328,47	764.68
Dimapur .									1367.07	791.45
Dharamnagar									1328.47	780.95
Gorakbpur									1333.79	773.33
Gambati .	•								1328.47	745.53
Golpara .									1328.47	794.67
Golaghat .									1328.47	778.16
Hyderabad									1331.46	785.64
Indore .					•				1338.68	780.68
Imphal .			•	•	٠				1328.47	849.49
Jaipur .		•		•	•				1347.25	797.90
Jamshedpur	•	•	•	•	•	•		٠	1320.05	778.64
Jodhpur .				•	•	•			1339.36	798.69
Jabalpur .			•	•					1338.80	793.72
Jaggi Road			•	•	•				1328.47	762.2
Jabhla band	dha .		•	•	•	•			1328.47	771.8
Jorhat .		•	•	•	•	•			1328.47	766.1
Kanpur .			•	٠	•	•			1365.90	800.5
Kohima .			•	•	٠	•			1367.07	822.1
Lucknow .			•	•	•	•	•	,	1391.24	828.6
Vindras .	•		•	•	•	•			1277.03	764.7
Madurai	•	•	•	, ,		•			. 1317.78	791.
Mercara	•	•	•						. 1329,27	- 796.5

TABLE No. 2 (6)-Contd.

		(1)					 (2)	(3)
Mysore .	•	•			•		1342.39	8040,48
Myrdherita		•					1328,47	745.53
Nagpur .							1345.16	793.11
Patiala .							1366.45	816.66
Patna .							1306.25	769.01
Poona .							1355.61	782.89
Ranchi .	٦.						1332,50	787.40
Rajkot .							1345.53	. 784.87
Rewa .							1370.36	813.33
Sambalpur	٠						1324,38	788,59
Shillong .							1328.47	786.33
Shivsagar .							1328.47	762.73
Srinagar .							1511,16	974.94
Tiruchirapalli							1312.78	786.95
Trivandrum							1296.96	806.44
Tezpur .		•	•				1328:47	769.82
Tinsukia .				•			1328.47	754.24
Vienkhanntnatt	1		•				1259.60	738.47

Source: Indian Oil Corporation.

TABLE No. 2(7)

INDEX NUMBERS OF WHOLESALE PRICES OF SELECTED COMMODITIES USED IN ROAD AND ROAD TRANSPORT IN INDIA

(BASE 1961-62-100)

Years		Trans- port equip- ment	Coal Pe		iation pirit	Diesel oil	Lubi- cating oil	Licetricity
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
1962-63 .		102 1	104 9	101 9	97 1	102 1	99 5	106-0
1963-64 .		108 9	112 2	120 2	119 8	128.9	96 B	115 1
1964-65 .		110 8	116 3	120 6	1119	129.3	95-8	119 6
1965-66 .		114 7	121 8	127 0	117 4	110 9	103 4	124 9
1966-67 .	•	124 8	128 5	131 5	120 9	119 3	115 9	137:2
1967-68	•	130 0	147 9	144 5	132 0	119 3	123.3	136 5
1968-69 .	•	130 6	161 2	148 6	138 1	121 7	125-3	143-3
1969-70 .	•	133 5	166 0	160 0	147 8	122 8	133 1	143.9
1970-71 .		136 6	167 9	175 5	160 9	121 1	141 5	150 2
1971-72 .		144 3	3 170 9	204 5	194 9	128 9	139	7 154 0

Table No. 2(7)-Contd

Years		***************************************		Vehicles Cycles Tyres and Tubes		Lime	Cement	
(1)				(9)	(10)	(11)	(12)	(13)
196263			•	101-5*	105 1*	100 0*	107 0*	103 5
1963-64			Ċ	101.9	105.3	100 0		103 5
1964-65			•	109-3	106 1	108-8	104 5	108 3
1965-66		•	•	111.5	105 7	115 1	92 0	10 7
1966-67	•	•	•		102 8	127 8	90 9	122 7
1967-68	•	•	•	116.0	102 8	150 8	93 3	135 4
1968-69	•	•	٠	126.3		154 4	96 5	136 9
1969-70	•	•	•	132.6	111-9	160 5	98-6	145 7
	•	•	•	135 5	114 3	• • • •	104-9	151 8
1970-71	•	•	٠	138 4	118 9	160.6	104-9	160 0
1971-72		٠.		146.2	126 2	161 6	104.2	

^{*}Relates to calendar year.

 ${\tt TABLE\ No\ 2\ (8)}$ RATIO OF STOCKS TO PRODUCTION OF SELECTED COMMODITIES

			1971	•		19	72*	
	-	Ist Qr	2nd Qr	3rd Qr	4th Qr.	Ist Qr	2nd Qr	3rd Qr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Diesel Trucks	Production	2155	1893	1998	1942	1896	1411	1688
(Nos)	Stocks	382	997	1284	1056	335	610	753
	Ratio(%)	18	53	64	54	18	43	46
Diesel Buses	Production	989	727	874	815	800	1331	825
(NTon)	Stocks	469	108	898	783	248	89	683
	Ratio(%)	17	110	103	96	31	27	83
Bicycles	Production	163	139	140	153	158	,202	196
(1000Not)	Stocks	122	176	61	150	154	171	190
	Ratio (%)	74	127	44	98	97	85	97
Automobile tyres	Production	331	308	366	391	378	310	398
(1000 Not)	Stocks	102	10	1 9	8 84	75	97	101
	Retio(%)	31	33	27	21	20	29	26
AutomobileTube	s Production	322	300	3 356	379	377	347	393
('000 Nos)	Stocks	10	7 10	9 9	7 129	98	125	125
	Ratio(00)	33	36	27	7 3.	1 26	36	32
Bicycles Pires	Poliction	1378	3 131	9 184	8 222	3 206	1650	1945
(2000 Nos.)	Stocks	41	3 15	4 55	i3 5G	3 771	675	450
	Ratio (to) 3	0 3	1 3	0 2	5 37	7 41	23
Bieyeles Tubes	Pro lictio	n 73	£ 87	5 128	135	7 126	1187	134
('000 Nos')	Stocks	78	9 38	4 39				
,	Ratio (%	10	7 4	4 9	1 2			

:(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Iron Ore	Production	2033	1941	1762	2029	2006	1820	1891
('000 Tonnes)	Stocks Ratio (%)	1684 83	1753 90	1 168 83	2056	1840 92	1882 103	2006 106
Finished Steel	Production	437				458	359	402
('000 Tonnes)	Stocks	165	158	1 1 1	174	163	180	195
	Ratio (%)	38	40	38	46	36	50	49
Heavystructural	Production	4500	3733	3532	4509	4309	4500	4556
(Tonnes)	Stocks	2300	3200	3700	3100	3833	2600	2412
	Ratio (%)	51	86	105	69	89	58	53
Coal	Production	6050	6070	6004	6135	6476	6488	6102
('000 Tonnes)	Stocks	9240	9160	8960	8310	7830	7610	7180
	Ratio (%)	153	151	149	135	121	117	112
Coment	Production	1291	1200	1241	1246	1327	1310	1190
('000 Tonnes)	Stocks	285	293	302	291	279	232	216
•	Ratio (%)	22	24	24	23	21	18	38

^{*}Provisional.

Notes:-

- 1. Production figures are the monthly averages for the quarters,
- 2. Stocks figures are for the end to the quarters.
- 3. Ratiosare stocks to production.
- 4. The break-up of this table under the three heads is based on broad comparison of the stock ratio in the third quarter of 1972 with the corresponding quarter of 1970 and on the over all movement in the ratio over the entire period.

Source : Economic Survey 1972-73.

TABLE No. 2(9)

PRODUCTION OF ROLLING STOCK OF RAILWAYS IN INDIA

(In Nos.)

			'	A 112 A 4	
Name of the Undertaking	- 	1951-52 to 1970-71	197	1-72	
(1)		(2)	(3)		
1. Chilteranjen Loce Works. (Started production in Nov. 1950))			<u>,, ,</u>	
Steam Locomotives			2325		.19
Electric Locomotives	•	•	298 (24 DC) (274 AC)	46	(6 DC) 40AC)
Diesel Locomotives			18		40
Boilers			2280		25
2. Integral Coach Factory. (Started production in Oct. 1955).					
Passenger coaches (un-furnished shel ing electric multiple unit stock	ls) ind	lud-	8033		670
Number of shells furnished	٠		6053		635
S. Direl Locopotice Works. (Started production in January, 1	964).				
Diesel Locomotives			423		105

Table No. 2(10)
PRODUCTION OF MOTOR VEHICLES AND TRAILERS BY
TYPES (ALL INDIA)

Year	Year		Cars	Jeeps	Truc	ks	Passenge	er Buses	Com-	
			Station Wagons	Land Rovers	Petrol	Diesel	Petrol	Dirsel	Vehicles (Total of Col. 4 to 7)	
(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1964	•	•	23227	10391	7550	20729		5237	33516	
1965		•	24790	10 (83	6985	23171	1	7143	37300	
1966		•	27597	9807	5568	22039	66	7224	34897	
1967-68			34358	5359	4267	19124	9	7432	30832	
1968-69			35799	7790	5006	21047	.,	9894	35947	
1969-70		•	35842	8523	•••		•		35433	
1970-71			36819	9346	***	•••			41218	
1971-72			40561	11227	***	,		•••	39667	

Source, Directorate General of Technical Development.

TABLE NO 2(10)-Co-13

Yes	AF	Auto- mobi- les (Total of Col. 2, 3&B)	Cycles 1	coo- Viers &	(opeds) Scoo- wi ters	Three Theoless	raileIs
(1)	 (9)	(10)	(11)	(12)	(13)	(14)
1964		 67134	13858	20043	1404	2493	8620
1963		72573	21364	20296	5768	1184	10544
1966		72301	25042	20971	4890	. 1175	4637
1967-68		79549	23173	33416	9405	, 4665	3397
1968-69		79536	31164	39609	9104	4727	305
1969-70		7979	38754	52246	12032	4082	_
1970-71		8738	38835	58118	12200	4733	
1971-72	•	. 9143	5 44064	68661	15753	7347	_

TABLE No. 2(11)

INDIGENOUS CONTENTS OF MOTOR VEHICLES AND ENGINES MANUTACTURED IN INDIA

16.1.1			Percen	tage as o	n	
Model	1956-67	1967-68	1968-69	1969-70	1970-71	1971-72
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Cars				······································		
Herald Fint . Hindustan Ambassado	. 89.80 . 98.25 r 97.50	98 25	95,00 99,06 99,36	97.10 99.25 99.36	98.61 99.25 99.49	99·30 99·64 99·82
Jecps						
Universal	93,80	96.50	99,34	99.13	99.05	99.03
Commercial -rehicles						
Dodge —Short Wheel base Dodge Kew Bus Tata Truck Tata Bus Bedford Truc! Leyland Hippo Layland Beater Leyland Titan Leyland Comet Jeep Truck Stundard 2 Truck Bajaj Tempo 3 Whee	70.30 99.11 97.09 94.60 84.00 33.00 38.00 74.50 85.96	98.01 98.01 95.00 95.00 84.00 ———————————————————————————————————		99 25 95.41	96,38 99,79 99,79 98,12 98,12 91,07 47,99 54,16 41,26 96,55 99,09 95,41	99.85 99.85 99.85 98.80 98.80 93.30 50.26 55.26 96.15 95.20
lers Bajaj Tempo Viking	94.00	94.00	96.00	97.00	98.00	98,00
(1-W) . Bajaj Tempo Metado	81.00	85.00	91.00	90.00,		93 00
(4-17)	,			^ 	80.00	95.00

And the second	(1))		(2)	. (3).	(4)	(5)	(6)	(7)
Motor cycle	ıs				*************	A			
Enfield 3	350 CC	3		89.80	92.20	96,50	97.30	97.50	93.20
Enfield	173 C	C		03.83	91.00	94,90	95.60	96.10	95,80
Rzjdoor				87.03	87.03	92.00	97.68	97.68	98,38
Jawa 25	O CC			.95,60	80.00	87.00	95.00	95.00	95.00
Jawa 60	CC			75.00	72.00	75.00	90.00	90,00	90,00
Scooters (2	wheeler.	1)							
Lambre	ta			91.69	92.62	93.89	94.91	96.42	26.50
Bajaj		•		94.80	94.92	95.91	93.97	95.97	95.97
Secolers &	Meşel	,							,
Suvega				64.00	64.00	72.00	81.00	81.00	64.50
Vicky				90.00	90.00	90.00	90.00	92.00	92.00
Lutoricks	heras (3	whee	lers)						*
Lambre	tta			78.20	62.30	81.43	92.04	94.47	95.50
Bajaj	Ş.,	•	•	90.50	91,65	93.72	93.78	93.78	94.34
Engines Period	sP[6]3	ra 1	: .						· ′.
cula	r Dien	i Er	gine.	69.19	70.87	70.87	86.90	86,98	87.78
Perkir Dies	s P/6 sel Eng		culaz -	97.62	97.62	97.62	90.00	97.00	97.24

Norr: Percentage has been worked out by taking ex-factory price of the complete vehicle in the country of origin and expressing the ex-factory price of the components which are being imported as a percentage thereof.

Scurer-Directorate General of Technical Development,

TABLE No. 2(12)

1MPORT OF MOTOR VEHICLES AND SPARE PARTS (ALL INDIA)

(Value in lakhs Rs.)

Year		Cars, Je Land Ro	eps &" overs	Motor Scool	cycles & ters	Buses Tra	Vans &
		No.	Value	No.	Value	No.	Value
(i) (i) (ii)	,	÷(2)	(3)	(4)	(5)	(6)	(7)
966	•	368	52	279	168	300	228
967-68		482	96	10	11	545	332
968-69:		235	60	14	41	175	350
969-70		. 106	śo	3	6	68	171
970-71		. 456	. 89	26	51	207	82
971-72	•	321	70	82	175	841	350

^{*}Including road tractors for tractor-trailer combinations.

Source: Office of the Chief Controller of Exports and Imports.

TABLE No. 2(12)-Contd.

12.

(Value in lakin Rs.)

Year				Total:	motor cles	Spare parts excluding Tyres & Tobes	Tyres & Tubes	Grand Total
·				No.	Value	Value	Value	Value
(1)				(8)	(9)	(10)	(11)	(12)
1966			•	947	4 18	1816	***	2264
1957-68	•			1037	429	2227	4	2660
1953-69		•		424	451	1789	14	2251,
1967-70	•			177	227	1211	22	1460
î970-71				689	222	2100	59	2381
1971-72				1244	573	1735	30	2360

PARTICLE STITUTE 1969-72

TABLE No. 2(13) ,

MEDITS OF CRUDE OIL AND PETROLEUM KHODUCIS DOLLING TOOM	Oty, : '000 tonner	Value : Million Rs.
FRODUCES		>
PETROLEUM		
L AND		
CRUDE OF		
Q.	,	
STHOOM	-	

						.	90201	9
	1969	c	1970	0	1971	-	7/61	(
danto	Six.	Value	Qly.	Value	Qry. Value		Qty.	Value
(1)	(2)	€	(+)	(5)	(9)	(2)	(9)	(6)
Grade O11	10,702	940 06	11,665	. 10,702 940 06 11,665 1029-63 12,688 1398 79 12,289	12,688	1398 79	12,269	1437-43
Petroleum Products		22.07	7 23	9.99	7.5	37.35	68	20-13
Light Distillates	ı.r	124.43	3 327	76.34	877	210.50	1,303	280 18
Others Property	•	235-93	620	218-93	983	187-05	1,886	262 00
TOTAL (Petro-	1,052	362-43	970	305 26	1932	434 90	3,257	562 59
GRAND TOTAL . 11,754 1322-49 12,635 1328-89 14,620 1833 69 15,546 2000 02	11,754	1322-49	12,635	1328-89	14,620	1833 69	15,546	2000 02

Saures :-- Indian Petroleum & Chemicais Statistics-1972. @Provisional.

Qry. : In tonnes Value : In Rs. Million EXTORIS OF PETROLEUM PRODUCTS FOR THE YEARS 1969-72

* 'YABLE' NO. 2(14)

							-	-
	-	-	.070		1971	7.1	1972	•
Products or	69G1		0/61	-	1		1	Value
	3	Value	Oix.	Valne	۶ چ	\u00e4ne\u00e4		
-		ł		1	(0)	6	(9)	6
(1)	8	9	€	(C)				-
			04.93. 744 620	0193	140.683	21.25	5,995	8+43
T. tohillistillates .	630,045	87.30		.0.2		1.67	81,181	
Affdelle Distillates .	67,064	9.93	10,04		4,411		16,137	13.63
Others	33,732	٠,	Ţ			3.5.5.6		89.38
Torat (Potroleum	738,867	107.72	412,209	77.70		3		- 1
products)	-	-		-	1		862.942 136-23	136-23
Crude OII	ì	1	1	1	I	İ		
Foreign exchangecarn								
ed on a/cot suppressed		40.33	19.4.731	20.6.	141,773		27.70 103,103 18.65	≘
(i) Bunkers.	130,000			5.15	133,688		50.09 161,523	32.35
(ii) Virlings	81,312	- 1	ì			ı	200	0
Torac	238,120	55.31	2:13,4:13	75-06	275,463		26.23 264,626 101-0-	101
						-		

^{*} Excludes fOC sales to foreign Bunkers on KNPC Account as the value for the same is not available. Soure i-Indian Petroleum & Chemicals Statistics-1972. *Include Re-exports.

TABLE No. 2 (15)

CRUDE OIL AND PETROLEUM PRODUCTS IMPORTED DURING 1961 TO 1972

('000 tonnes)

Year	<u></u>					Products	Grude	Total
(i)						(2)	(3)	(4)
1961			•	•	•	2481	5968	8449
-1962						2984	6022	9086
1953						2900	6519	9419
1964		15				2956	6791	9747
1965						2880	6811	9691
1966						2207	7457	9664
1967						951	8704	9655
1968				•		933	10450	11383
1969						1052	10702	11754
1970						970	11665	12635
1971				,		1932	12688	14620
1972@	^		•			3257	12289	15546

[@] Provisional.

Source : Indian Petroleum and Chemicals Statistics_1972.

PART—II TRANSPORT SYSTEMS

SECTION 3: AIR TRANSPORT

AIR TRANSPORT

The Overcreate General of Civil Asiation under the Master of Tourism and third asiation a responsible for providing the investing infer-include formerval are true metrical and for the regulation and control of all interestical analogs including the gliffing and flying club. The functions of HGCLA include the following:

- (a) the construction, maintenance and management of terminal buildings, runways, aprens, etc., of civil aerodrames,
- (b) the precision of environment and and communication facilities to civil air transport.
- (e) the valorement of air tran part regulations, including safety requirementations as the contilication of the air worthwest of aircraft because of pilots; anxigators and officer aircrew, and requiation of air traffic, and
- (d) enquiries into air acci lents and incidente, affecting the safety of aircraft,

Two Government Corporations, e.g., Air India and Indian Airlines were ictup in luguer 1953, under the Air Corporation Act, 1953. The Air India operates its aircraft fon internationalisms distance soutes and the Indian Airlines plies on all domestic routes and also routes to neighbouring countries like Afghanistan, Nepal, Burms and Cevlon.

The Corporations thus created under the Air Corporation Act are each entrusted with the functions of providing safe, efficient, adequate and economical and properly coordinated his transport services. They also exercise their powers under the Act to devel ophistransport services to the best advantage and poside services at reasonable rates.

The general superintendence, direction and management of the affairs and husiness of each. Corporation vest in a Board of Directors consisting of a Chairman and between 5 and 9 members appointed by the Central Government.

Tide (in \$44) FLEET OF AIR INDIA AND INDIAN AIRIJNES "Actor Halles")

Tree of	i Chi	Air-	1	561	زرنة إ	₹ [#] ₽5	1557	铁粒	# Jaliy	***	3071
	1	1)		(1)	(2)	(5)	(\$)	(6)	171	£2,7	19
Boring 747	•		,		m	***		***	a Activity of the	90'44 .	
Bering 707				7	8	Ş	ĸ	111	123	15	. (2)
Posing 737		•	٠		• •		*	fc+	**	2.	7-
Caravelle	•		•	4	3	b	7	î	3	7	
Viscount	•			12	12	12	12	1 ŧ	14	24.	1.79
Skymaster	•		•	3	3	3	3	5	> 2 4	395	ارم از کرد. از میش
F-27 .				10	10	13	12	13	14	13	12
Dakota	•	•	•	36	34	51	3/3	33	2#	13	n.
115-740	•	• •	٠.	***	***	•••	*	£	12	1.5	"控
		TOTAL	•	7:	73	17	35	¢.5	01	73	65

^{*} Started Operation from May, 1972.

Source: -- Civil Aviation Department, New Delbi.

PASSENGERS TRAFFIC DOMESTIC AND INTERNATIONAL CARRIED BY INDIAN AIR TRANSPORT UNDERTAKINGS

Servic (as on	c/Ye: Sist I	ar Jec.)		Hours flown (in thou- tands)	Kilo- meters flown (in mil- lions)	Passen- gers carried (In thou- cands)	Kms j	able seat Kms.	gers
	(1)			(2)	(3)	(4)	(5)	(6)	(7)
(A) Dom	netic	*****	•						
1956 1961 1966 1967 1968 1969 1970		:	•	92.4 103.6 94.8 97.3 98.7 109.3 105.4 90.0	23.0 27.8 30.8 93.7 35.6 39.4 37.8 33.4	367.9 745.0 1261.4 1508.0 1749.4 2051.8 2122.8 2055.9	276.8 574.5 1009.2 1175.4 1332.7 1523.5 1559.0 1577.7	803.7 1401.6 1768.3 1894.4 2068.4	60.9 71.5 72.0 66.5 70.4 73.7 76.8 69.1
(B) Inter	antla	uni							
1956 1961 1966 1967 1968 1969 1970	•	• • • • • • • • • • • • • • • • • • • •		41.4 34.9 29.5 33.8 36.7 41.1 42.3 39.6	14.8 16.6 19.0 22.4 21.4 27.2 27.9 25.9	321.5 358.8 498.6 548.8	402.3 698.1 1153.0 1339.3 1517.8 1711.6 1996.3 2031.4	631.1 1495.7 2417.6 2908.4 3238.4 3678.5 3785.5 4173.5	63.8 46.7 47.7 46.1 46.9 46.5 52.7 48.7
Total									
1956 1961 1966 1967 1968 1969 1970	•	•	•	136.6 138.5 124.3 131.1 135.4 150.4 147.7 129.6	66.6 65.7	1548.9 1829.5 2108.2 2490.4 2671.6		1085.9 2229.4 3919.2 4676.7 5132.7 5740.9 5815.1 6155.7	62.5 55.4 55.6 53.8 55.5 56.5 61.1 55.9

Source:-- Civil Aviation Department, New Delhi.

Table No. 3 (3)

GOODS TRAFFIC OF NATIONAL AIR-TRANSPORT UNDERTAKINGS

Year (ending			pontai			nne-Kr in mill		wn	Tonne Kms.	nue
3 Ist Dec.)	j	Freight	Mail	Total	Paste		t Mai	Total	able (In Millions)	factor (%)
(1)	_	(2)	(3)	\ ⁴)	(5)	(6)	(7)	(8)	(9)	(10)
Domestic										_
1956 1961 1966 1967 1968 1969 1970		40.0 33.9 11.9 12.7 13.6 16.9 15.9	4.9 6.2 9.0 9.6 9.9 10.6 10.4	44.9 40.1 20.9 22.3 23.5 27.5 27.0 26.4	24.6 51.0 89.5 104.1 118.2 135.2 138.3 135.9	19.7 17.9 9.3 10.6 11.4 14.0 13.7	4.8 6.2 9.0 9.4 9.7 10.1 9.8	49.1 75.1 107.8 124.1 139.3 159.3 161.8 159.8	70.4 100.3 146.6 190.3 193.8 203.0 203.3 222.0	69.9 75.0 73.5 65.2 71.8 76.6 79.6 72.0
Internation	12	ı								•
1956 1961 1965 1967 1968 1969 1970		3.6 6.2 9.4 11.0 11.8 15.0 16.0	0.9 1.3 1.5 1.6 1.8 1.6 1.5	4.5 7.5 10.9 12.6 13.6 16.6 17.5 18.8	35.9 62.5 105.6 122.6 138 8 156.5 182.4 185.4	10.0 26.4 50 1 60 1 64.0 82.2 85.7 97.1	4.1 6.2 8.7 9.8 11.2 10.1 9.1 7.8	50.1 95.1 164.4 192.4 214.0 248.8 277.2 290.3	442.5 494.2 505.9	
Total								2.0.0	0.5.1	
1956 1961 1966 1967 1968 1959 1970		43.6 40.1 21.3 23.7 25.4 31.9 52.6	12 2	47.6 31.8 34.9 37.1 41.1		44.2 59.4 70.7 75.4 96.3	17.7 19.1 20.9 20.1	408.1 439 0	313.7 475.6 590.9 636.9 702.2 709.2	54.3 57.1 53.6 55.5 58.1 61.9

Some: Civil Aviation Department, New Delhi.

TABLE No. 3 (4)

TRAFFIG REVENUES OF NATIONAL AIR TRANSPORT UNDERTAKINGS

(In million Rs.)

(end	Year ing 31st De	, ;	<u>.</u>			Ope	rating re	venue earr	red
			, - r	۱,	Passen	ger	Freight	Mail	Total
<u> ()</u>	(1 ₎ ,		. '	# . f	(2)	.`	(3)	(4)	(5)
Dome	stic		7.		34.7				··········
19 19 19 19	956				35.5 88.8 188.3 235.3 293.3 337.4 364.0 399.6	35	15.9 20.0 16.9 20.9 25.2 31.9 32.7 36.1	8.4 11.4 17.1 18.9 20.0 21.0 20.6 22.5	60.2 120.2 222.3 275.1 538.5 590.5 417.3 458.4
intern	ntiona I			j; : • ·			,50.1	22,5	المعادية
15 - 15 - 15 - 15 - 15	956				74.0 141.1 291.1 372.1 417.6 450.4 526.4	** . ! '\". !	12.3 32.1 72.6 97.9 02.5 30.2 35.1.	14.2 20.2 36.5 48.5 46.3 42.3	100.5 193.4 400.2 575.6 635.7 703.8 701.3
Total	,					"			
1	956 961 966 967 968 970				109.9 229.9 179.4 107.5 11.0 197.8 190.4		26.2 52.1 89.5 18.7 27.6 67.1 67.6	71.6 51.6 57.25 67.1 67.1 10 52.9 11	160,7 313,6 322,5 793,4 712,1 127,0

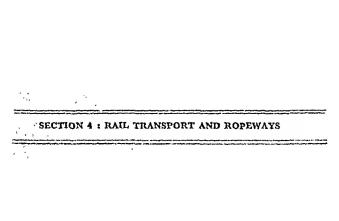
Table No. 3 (5)
INTERNATIONAL AIR TRAFFIC OF INDIA

(In thousands)

	car			Indic fr	om Indi:	Traffic	to India	Total	Traffic
(endin	g 318	i Dec	•}	Passen- ger	Ton- nage*	Passen- ger	Ton- nage*	Passen- ger	Ton-
(1	}			(2)	(3)	(4)	(5)	(6)	(7)
Indian O	perat	ors							
1956 1961 1966 1967 1968 1969 1970 1971 Foreign (- : : : : : : : :	itors		24.7 45.3 91.6 106.9 124.2 142.0 170.2 163.3	1.0 2.0 3.4 4.4 5.0 6.2 6.5 6.8	22.2 41.7 85.4 99.1 144.2 137.5 162.6 159.2	1.0 2.2 3.4 3.6 3.8 4.3 4.9	46.9 87.0 177.0 205.0 238.4 279.8 322.5	2.0 4.2 6.8 8.8 10.5 10.8
1961 1966 1967 1968 1969 1970		:		136.5 189.9 206.2 220.6 238.4 283.2 285.7	2.4 3.6 3.9 6.1 7.5 8.5	121.5 164.6 171.4 192.7 211.9 262.7 257.6	2.0 3.4 3.6 5.3 5.3 5.3 5.8	131.4 258.0 354.5 377.6 413.3 450.3 545.9 544.3	2.8 4.4 7.0 7.5 11.4 12.9 13.8 16.8
TotalSch				97.2	2.6	88.1	2.2	178.3	4.8
1961 1966 1967 1968 1968 1970	:	:		350.4 453.1	4.4 7.0 8.4 11.1 13.7 15.0 18.8	163.2 250.0 270.5 306.9 349.4 425.3	4.2 6.8 7.2 9.1 9.7	345.0 531.5 583.6 651.7 729.8 878.7 866.8	8.6 13.8 15.6 20.2 23.4 24.6 29.5

^{*}Treight and Mail,

Space: Civil Aviation Department, New Delhi



RAIL TRANSPORT

The Ministry of Railways is respondible for planning the construction, maintenance and operation of railways and the Railway hoard in the Ministry functions as the top executive for administration, technical supervision and direction of railways.

- 2. The Railway Board consists of the Chairman. Financial Commissioner and three other members, who are after-officio Secretaries to the Government of Indiain the Ministry of Railways, the Chairman being the Principal Secretary. The portfolios of Civil Engineering, Mechanical Engineering, Transportation and Staff are held by the Chairman and the three Members. By virtue of the Inclusion of the Financial Commissioner (Railways) who is expelled Figure Secretary to the Govt. of India in the Ministry of Railways, the Railway Board exercises all the powers of Government relating to its budget, finance and funds.
 - 3. For the purpose of administration, Indian Railways are divided into nine zones etc., Central, Eastern, Northern. North-Eastern, North-East Frontier, South-Gutral, South-Eastern and Western Railways, Lach Zonal Railway is headed by a General Manager who is responsible to the Railway Board for operation, maintenance and financial position of the railways in the Zone.
- 4. The three production units namely the Chittaranjan Locomotive Works, Chittaranjan, the Integral Coath Factory, Madras and the Diesel Locomotive Works, Varanasi are also under the Ministry of Railways.
- 5. The Railway findest was separated from the General fludget in 1924-25, subject to the obligation to contribute a fixed rate of dividend (to be periodically reviewed) to the General Exchanger which provides for the capital invested on the Railway. The Railways are however, free to pursue their own financial policies to their best advantage.

Table No. 4 (1) Suarmany of Woming of Ratiways

	1930-51	1953-56	19:0961	1963-66	12-0261	1971-7
entreprintent personal annual construction and annual annu	(2)	8	ε	3	(9)	(7)
ds en 31st Merch : Capital est-charge (Millions of Route Kilometers Number of Stations	8,270 33,596 5,976	9,690 53.011 6,152	15,209 56,247 6,523	26,803 50,399 6,986	33,303 59,790 7,066	35,1 60,0 7,0!
(4) Locomothes: (1) Steam (11) Dicest (11) Dicest	8,120 · 17 72	9,026 67 79	10,312 181 181	10,613 727 403	9,387 1,169 602	9,22 1,28 63
(3) Coaching vehicles (units) (4) Electric multiple unit coaches	19,081	22,610 574	27,477	1,355	33,310	33,589
(d) Wagons (units)	205,596 914	240,756 1,025	307,907	370,019	383,990	383,990 - 3,82,445 1,374 1,391

	· Contd.	
,	4(1)-	
	Š	
	CANLE	

*	1950-51	1955-56 1960-61	1960-61		1965-66 1970-71 1971-72	1971-72
(1)	(3)	(3)	€	(3)	9	(3)
Vehicle and magon Kms. (exclud- ing Departmental & Brake vans),						} '
Vehself. Kilometres (mil-						
(b) Wagon Kilometres (mil.	7,802	3,200	. 3,799	1,547	5,011	5.300
Train Rilometres (evoluding Depart-	4,370	3,364	7,507	9,960	10,999	11,212
(a) Passenger & Peoportion of						
(b) Goods & Propartion of mixe.	163. 1	186.8	205.1	231,4	218.7	253.2
Volume of Traffic (millions)	111.5	133,0	161.2	192.5	202.1	206,3
(a) Passengers Oriquating (b) Passenger Kilometres (c) Tomes Oriquating (d) Net Tome Kilometres.	1,284 66,517 93.0 44,117	1,275 62,400 115,9 59,576	1,594 77,665 156.2 87,680	2,082 96,29† 203.0 116,936	2,431 118,120 196 5 127,356	2,536 125,333 197 8 133,265

LABIR No. 1 (1)-Contd.

Andrew State Company of the State of the Sta	1920-51	1955-56	19-0961	1950-51 1955-56 1960-61 1965-66 1970-71 1971-72	1970-71	1971-72
137	(2)	(5)	€	(2) (3) (4) (5) (6) (7)	(9)	3
(1)						
Operating Revenue and Expenditure (mil- lions of Res.) (a) Revenue—Gross Receipts	2,633.0	3,163.3	1,601.2	3,163.3 1,601.2 7,337.6 10,069.5 10,909.7	10,069.5	10,969.7
(b) Working expenses Including depreciation, etc. & Misco-Hancous axpenses	2,157.1	2659,9	3,725.5	2659,9 3,725.5 5,069.2 6,622.2 9,278 9	0,622.2	9,278 9
(6) Not Revenue receipts	475.6	503.4	200			
(d) Percentage of net rovenue re- gelpistothicaplital-at-churge	5.75	5,20	5.77	5.03	5,03 1.35	63.2
(4) Operating ratio	80.0	o. H	•			
(f) (i) Dividend to General Revenues	125.1	361.2	558.6	558.6 1,037.81	1,645,7 1,512.4	1,512.4
(11) Payment to States in lieu of tux on passenger fares	i	ì	1	125.0 j	125.0 j	1,1178.1
(*) Surplus (+)/ Deficit (-) .	150.5	142.2	270.1	0.001		-

TABLE No. 4 (2)

ROUTE LENGTH, PASSENGER KILOMETRES, TONNE KILOMETERS AND EARNINGS DERIVED THEREFROM BY INDIAN RAILWAYS (INCLUDING NON-GOVT, RAILWAYS)

	ir end st Ma			Route length in thou- sand kilo- metres	Passenger Lilo- Metres (in millions)	Earnings* from passengers carried (in mill- ion Rs)	Tonne kilo- metres (in milion)	Earnings from goods carried (in mil- lion Rs.)
	(1)			(2)	(3)	(1)	(5)	(6)
1951.				54.8	57,064	922	43,464	1,398
1956.				55.9	62,899	1,088	59,638	1,179
1961.	•			57.0	78,061	1,325	87,758	2,813
1966.	•			59.1	96,756	2,203	116,848	4,531
1967.	•			59, 1	102,577	2,304	116,671	4,686
1968.		•	•	59.3	107,513	2,536	118,920	4,897
1969.		•	,	60.0	107,294	2,661	125,197	5,496
1970.				60.1	113,738	2,799	128,304	5,788
1971.		•		60.0	118,309	2,960	127,407	6,013
1972.	•	•	•	60.3	125,469	3,205	133,311	6,563

^{*}Includes the element of passenger fares tax merged with passenger fares with effect from 1-4-1961. In lieu of this tax an amount of Rs. 12.5 crores is being paid to the General Revenues from 1961-1962 onwards.

Source: Supplement to the Reports by the Railway Board on Indian Railway 3.

Tere No 4 (3)

ROUTE KILOMETERAGE OF GOVERNMENT RAILWAYS

(In thousand Kilometres)

Yeare	nding	3151 1	Marc	h			Single line	Double line	Multiple line	Total
(1)							(2)	(3)	(4)	(5)
Broad Ga	uge									
1951							20.3	4.7	0.3	22.3
1956	•						20.9	4.6	0.3	25.0
1951	•	•	•				20.3	8.1	0.3	25.7
1956	•		•		٠	•	19.7	8.6	0.3	28.6
1976	•	٠	•	•			19.0	10.0	0.4	29.4
1971	•	•		•	٠		18.7	10.3	014	29.4
1972	4	•	•	•			18,9	10.7	0.4	30,0
Metre G	ange									
1931	•	•	•				24.0	0.2		24.5
1326	•	٠		•	•		24.5	0.1		24.
1461	•						24.9	0.3		25-
1965	٠	-	•		•		25.1	0.4		25.
1976	•	•	•		•	-	25.4	0.4		25.
1971	•	٠					25.4	0.3		21.
10.27	•					•	25.1	0.3	·	25.

TABLE No. 4(3) -- Contd.

<u> 2.145.4 34.4</u>	Tanle No. 413	}Contd.			
E.O.		(2)	(3)	(4)	(5)
Varrow Gange					
1951		. 4.1	•••	•••	4.1
1956		. 4,4	•••	•••	4.4
1961		. 4.4	•••	***	4.4
1966		4.3		• • •	4.4
1970		4,5			4.5
1971		. 4.5		-	4.5
1972		. 4.5	-		4.5
Total					
1951		. 4B.4	4.9	0.3	53,6
(1956 📉 🐫 📜		49.8	4.9	0.3	55.0
1961		49.6	6.4	0.3	56.3
1966		्याती जुला 49,1	9.0	0.3	58.4
1970 🖟 👾 🧢		48:9	10.4	0.4	59.7
1971-		48.6	10.8	0.4	59.8
1972		48.5	11.2	0.4	60.1

Saurce, Tadian Railways.

TABLE No. 4(4)

ZONE-WISE ROUTE LENGTH AND RUNNING TRACK OF GOVERN MENT RAILWAYS (1970-72)

(In thousand kilometres)

Zone/Year	cne	ling		Rout	e length		Rı	nning tr	ack.
31st Ma	rch			Von- ctri- fied	Electri- fied	Total	Non- Electri- fied	Electri- fied	Total
(1))			(2)	(3)	(4)	(5)	(6)	(7). 🗧
Central									
1970 1971 1972	:	:	:	5.2 5.2 5.4	0.6 0.6 0.6	5.8 5.8 6.0	6.9 7.0 7.4	1.3 1.3 1.3	8.2 8.3 8.7
Eastern							-		
1970 1971 1972	:	:	:	2.9 2.9 3.0	1.2 1.2 1.2	4.1 4.1 4.2	3.9 3.9 4.0	2.5 2.5 2.5	6.4 6.4 6.5
Northern							****	2.0	
1970 1971 1972	:	:	:	10.2 10.3 10.0	0.4	10.6 10.7 10.6	11.7 11.7 11.2	0.7	12.4 12.4 12.4
North-Es	sten	a				,		***	
1970 1971 1972	-		· :	5.0 5.0 5.0		5.0 5.0 5.0	5.2	- =	5.2 5.2 6.0
North-E	st-F	rontic	r			•••	,0,0	•	. 010
1970 1971 1972	14	• • •	:· :	3. 3. 3.	6 🗀	3.1	6 3.	G -	- 3.6 - 3.6 - 3.6

TABLE No.4(4)-Contd.

2. (i) [~~~	(2)	(3)	(4)	(5)	(6)	(7)
Southern					····			
1970 1971 1972	:	•	7.3 7.3 7.3	0.1 0.2 0.2	7.4 7.5 7.5	7.9 7.9 7.9	0.2 0.2 0.2	8.1 8.1 8.1
South-Eastern								
1970 1971 1972	:		5.6 5.5 5.5	1.2 1.3 1.3	6.8 6.8 6.8	6.9 6.8 7.0	2.2 2.5 2.5	9.1 9.3 9.5
South Central						•	-	
1970 1971 1972	:	:	6.2 6.2 6.2	=	6.2 6.2 6.2	6.9 6.9 7.0	_	6.9 6.9 7.0
Western					•			
1970 1971 1972	:	:	10.1 10.1 10.1	0.1	10.1 10.1 10.2	11.1 11.2 11.2	0.2 0.2 0.2	11.9 11.4 11.4
Total								•
1970 1971 1972	•	, .	56.1 56.1 56.1	3.6 3.7 4.0	59.7 59.8 60.1	64.1 64.2 65.3	7.1 7.4 7.9	71.1 71.6 73.2

Source: Supplement to the Report by the Railway Board on Indian Railways.

4-2M of S.&T (ND)/73

TABLE No. 4(5)

STAFF EMPLOYED IN GOVERNMENT AND NON-GOVERNMENT RAILWAYS

(In '000)

As on	31st	Marc	h			Govt. I	lailuays*		Non- Govt.**	Grand Total£	
					_	Open line	Cons- truction	Total	Rail- ways	101470	
(1)						(2)	(3)	(4)	(5)	(6) -	
1951		•	•		•	910.1	3,4	913.5	• 9.2	922.7	
1956						1020.6	4.2	1024.8	5.9	1030.7	
1961						1145.2	11.8	1157.0	5.8	1162.8	
1966	•					1327.9	24.4	1352.3	5.7	1358.0	
1967		•				1344.7	20.1	1364.B	5.4	1370.2	
1968						1345.5	17.5	1363.0	4.6	1367.6	
1969		٠	•			1338.3	15.6	1353.9	4.6	1358.9	
1970@						1344.	7 14.2	1358.9	4.6	1363.5	
19,71@		. •			,	1360.	5 13.7	1374.2	2 4.6	1378.8	
1972	•	•	•	•		1378.9	12.4	1391.5	3 1.9	1393.2	

^{*}Includes the staff employed under Railway Board also.

^{**}There is no staff employed on construction.

[£]Includes staff on loan from the Indian Audit and Accounts service.

Source: Supplement to the reports by the Railway Board on Indian Rail ways.

Table No. 4 (6)
ROLLING STOCK OWNED BY GOVERNMENT RAILWAYS

Gauge/As o	n		,	Lacomot	ives	~		Wagons
Jist Maren		,	Steam	Diesel	Electric	Total	ches	 (exclud- ing de-
				•	•		· r	part- nental)@
(1)			(2)	(3)	(4)	(5)	,(e)	(7)
Broad gauge						•	•	,
1951		:	5331	17	68	5416	6973	148675
1956	·		5668	47	75	5790	8149	161003
1961		Ċ	6301	146	127	6574	10699	206929
1966			6619	520	381	7499	12683	257220
1971			5599	872	582	7053	14351	270854
1972		•	5475	966	619	7060	14853	270434
Metrogange								`
1951			2490		4	2494	6222	42565
1956	•	•	2942	20	4	2966	7240	64073
1961	·	•	3610	27	4	3641	8958	82938
1966	Ì	•	3600	174	. 22	3796	10005	90907
1971			3398	264	20	3682	10622	91337
1972		•	3355	284	20	3659	10676	90291
Narrow gauge								., ` .
1951	٠.		299			299	1112	4100
1956			416	·		416	1206	5323
1961			401	8		409	1355	5524
1966	•		394	33		,427 ·	1464	5973
1971	`.		390	33		423	1454	5714
1972			392	38	:	430	1439	^{1.1} 5672

TABLE No. 1(6)-Could.

(1)	 	 (2)	(3)	(4)	(5)	(6)	(7)
1951 1956 1956 1961 1966 1971	 	 8120 9026 10312 10613 9387 9222	17 67 131 727 1969 1288	72 79 181 393 602 639	8209 9172 10624 11722 11158 11149	21012 24152	195340 230399 295391 354100 367905 366397

^{*}Includes Electric Motor Coaches. & Cars @Includes brake vans on narrow gauge Source: Indian Railways .

TABLE No.4(7)

USAGE OF ENGINES, VEHICLES AND WAGONS ON GOVERNMENT RAILWAYS

(In kilometres)

Year end 31st Mare	Year ending 31st March			Vehicle km (in term	s. per vehi	icle day clers)	Wegons kilometres perwagon day (in	
**	**		line (all tractions)	Passenger		Coaching	terms of 4 wheelers	
(1)			(2)	(3)	(4)	(5)	(6)	
Broad gaug	c		·					
1956 . 1961 .	•	:	135 137		267* 252*	-	74.5 76.9	
1966.	:	:	142	264	202	218	73,2	
1971 . 1972 .	:	:	155 195	282 280		158 175	73.4£ 74.0	
Metre gang	ge.							
1956 .			124		198*		45,9	
1961 . 1966 .	•	•	119 129	183	177*	86	51.6 60.1	
1971 .	:	:	132	191		99	58.4	
1972 .		•	132	189		96	58.5	
Narrow gau	ge							
1956 .	•		100		119*		24.3	
1961 . 1966 .	•	•	97		113°		22.7	
1971	:	:	94 87		115*£	•	22.7 20.2	
1972 .		•	90		116.	•	19.5	

^{*}Separate figures for passenger and coaching vehicles not available, £ Revised.

Source : Indian Railways.

TABLE No. 4(8)

ORIGINATING TRAFFIC, NET TONNE KILOMETRES AND AVERAGE LEAD FOR PRINCIPAL COMMODITIES FOR GOVERNMENT RAILWAYS (1970-71 and 1971-72)

Commodity		7	Originat Traffic (Million t	In (et Tonn In millio	e Kms.	Average 1 (In kms	ad :
		19	70-71 19	971-72 1	970-71 1	971-72 1	970-71 19	71-72
(1)			(2)	(3)	(4)	(5)	(6)	(7)
Foodgrains .			15.09	15.50	14505	16418		1059
Coal			47.89	48.73	27837	29468	581	605
Fertilizers .			4.70	5.24	3808	4357	811	832
Mineral Oils			8.86	10.06	5264	5966	559 ¹	593
Cement .			11.02	11.22	6990	6940	633	617
Iron and Steel			32.13	31.65	14401	14068	448	444
Other Goods	٠	•	48.17	47.68	. 37891	39672	787	831
Total (Revenu	e car	rning	167.85	170.08	110696	116895	659	687
Total (Non carning traff	Res	enue	. 28.60	27.75	16662	16370	583	590
Grand Total			196.45	197.83	127358	133265	648	674

Source: Supplement to the Report by the Railway Board on Indian Railways 1971-72.

TABLE No. 4(9)

PURCHASE OF STORES BY INDIAN RAILWAYS (1970-71 and 1971-72)

1 Items	Imp	orted	Indi	genous	T	otal
, items	1970-71	1971-72	1970-71	1971-72	1970-71	1971-72
(1)	(2)	(S)	(4)	(5)	(6)	(7)
Locomotives, carriages, wagons and fittings.	2 15.5 (15.7)		1315.1 (84.3)		1560,6 (100,0)	
Permanent way ma- terials, track tools as bridges	nd 0.3 (0.1)	-	234.3 (99.9)	274.3 (100.0)	234.6 (100.0)	274.3 (100.0)
Engineeringstores covering building materials, plant and machiner				158.8 (91.0)	125.7 (100.0)	
Electrical, signalling a telecommunication stores	unp • 4.5 (2.0)	25.2 (7.3)	222.5 (98.0)	318,4 (92.7)	227.0 (100.0)	343.6 (100.0)
Fuel and fuel oils (i cluding petroleum products)	n- . 10.1 (1.1)	20.9 (2.0)			930.3 (100.0)	
Small tools, leather, c vas, metals and other stores	an- r 62.5 (11.2)				558.8 (100.0)	
Total	325.9 (9.0)	400.5 (9.7)	3311.1 (91.0)		3637.0 (100.0).	

Nort: - Tigures in brackets indicate the percentage of imported and indigenous to total.

Source: Indian Railways, 1971-72.

TABLE No. 4(10)

OF THE WORKING OF GOVERNMENT RAILWAYS FINANCIAL RESULTS

(Rs. in millions)

Years	Capital* at charge	Gro traff Rece	îc	Vorking Ex- penses	Net Re- venue	Net Surplus	ting ratio	Net rate of re- turn on eapi tal at charge
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(0)
	8270.		630.1	2104.8	475.6	150.5	80.0	5.8
1950-51			162.9	2582.1	503.4	142.2	81.6	5.2
95156	9689.	•		3582.4	878.7	320.1	70.4	5.8
1960-61	15208.	•	1568.0				79.5	5.0
1965-66	26803.	.2	7335.7	5030.4	1348.4			
1966-67	28415	.7	7607.8	6392.5	1141.2		-	
1957-68	29780	.3	8181.4	6933.	1100.0	()315.	3 04.7	
1968-69	31012	.7	8988.4	7419.	3 1428.1	{} 78.	6 82.	
1969-70	_	5.1	9512.8	7900.2	1465.	6 ()98.	3 83	.0 4.6
1970-7		3.4	10066.9	8473.4	1447.	3 ()198	3,4 84	.2 4.
1971-7	•		10965.	9118.	5 1690.	B (+)178	.4 83	.2 4.

^{*}Include depreciation provision.

Note.—Not revenue represents the not earnings during an accounting period after meeting all the Revenue charges except the payment of dividend and of the fixed contribution of Rs.125 millions from 1961-62 in lieu of tax on passenger feres to General Revenues for transfer to the states.

Space . Reports by the Radway Board on Indian Railways.

TABLE No. 4(11)

AVERAGE FARES AND FREIGHTS ON INDIAN GOVERNMENT

	e e					Indie	es of co	st
Year		Average rate per Tonne Km. (Paise)	Index	Average rate per Passen- ger Km. (Paise)	Index	Price of Coal	Price of Iron and Steel	Per Capita cost of em- ployees
, v. > '(1),	٠ .	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1950-51	•	3,16	100	1.48	100	100	100	100
1955-56	٠,	3,50	111	1.73	117	101	142	117
1960-61		9.87	122	1.71*	116	141	177	142
1965-66		4.57	145	2,28	154	173	219	185
1969-70		5.17	164	2.46	166	235	275	248
1970-71		5.43	172	2,50	169	238	297	269
1971-72	,	5.61	178	2.55	172	242	317	285

^{*}Does not include tax on passenger fares levied since 15th September 1957 (and subsequently abolished on certain conditions with effect from 1st April, 1961) which, on the total, comes to a little more than 10 percent of the aggregate passenger carnings.

Source: Reports by the Rallway Board on Indian Railways.

(1)		(2)	(3)	(1)	(5)	,)
Perder Ropeway Jupur & nala	between Chars-	Do.	9	200 (b)	2.52	28
Jhwia Coalffeld For Area D ,	Ropewass :	Monod km. Ilicable 24.75 kms.	}28.75	200 450		9
For Arta T	• •	A line 21.72 km. B line 20.92 km.	41.64	450 450	***	9
Ranigan Coal fee J. & K. No.1 J. & K. No.2 J. & K. No.3	d Referen	er:	45,07	***	••	9

fa)1. Excludes cost of eathering the coal from the Collieries for leading ret the receiving points of the repension.

2. The Life Expectancy of the collieries would be an important factor in determining the economic feasibility of a ropeway restem.

⁽b) Ropeways brings 100 tonses of washery rejects on return side.

SECTION 5: ROADS AND BRIDGES

SECTION 5: ROADS AND BRIDGES

ROAD DEVELOPMENT IN INDIA

(a) Jarokar Committee, 1927 :

The end of World War I saw the introduction and development of motor transport in India and with it demands began to be made for better roads, capable of withstanding the century's old bullock cart trailie and the newform of transport, as the existing roads could ill-resist the combined disintegrating action of such trailie. These demands culminated in a resolution passed by both the Chambers of the Indian Legisloture in 1927 for the appointment of a Committee to examine and report on the question of road development of Indian pursuance of this resolution a Committee was appointed by the Government of India with Shri M. R. Jayakar as its Chairman.

The Jayakar Committee (1927) came to the conclusion that road development in India, a selsewhere, was passing beyond the capacity of Provincial Governments and local bodies and was becoming a national interest, which might to some extent he a proper charge on Ceotral revenues. Its important recommendation affecting road development was that an additional duty of two anoas (12 nP.) per gallonshould be levied by the Centre on motor spirit for the specific purpose of road development and that the proceeds should be credited to a separate Road Development Fund. The Committee further recommended that the balance in the fund should not be allowed to lapse at the end of each year, as road programme was required to be planned and executed for a number of years and for this purpose continuance of funds should be assured.

(b) Central Assembly Resolution (1929) for Central Road Fund:

of India and the Central Road Fund came into existence on the 1st March, 1929, upon the authority of a resolution adopted by the Indian Legislature, (See Annexure X). The additional duty of 2 annas (12 nP.) was raised to 22 annas (12 nP.) per sallon in 1931. The constitution of this fund represents the first important measure taken by the Central Government to promote road development in India.

20% of the onnual revenue of the Fund is retoined as Central Reserve in the Fund from which grants are given by the Government of India for meeting expenditure on the administration of the Fund, road experiments and research and suitable road and bridges ohemes in States e.e. inter-State roads and bridges on the borders of States. The balance of 80 percent is allocated by the Government of Indiatothe various States on the basis of the netual petrol consumption

in the respective States. A third revision was instituted in the fund in April, 1950, called the Special Reserve to which contributions are made from outside; the Central Road Fund proper for the financing of specified road projects.

The accounts of the Central Road Fund are maintained by the Accountant's General, Commerce, Works and Miscellaneous. Control of expenditure its exercised by the Roads Wing, Ministry of Shipping & Transport, threuth quarterly reports of expenditure incurred from the Eund, which are received from the Accountant General, Commerce, Works and Miscellaneous and the Accountant General of States in form prescribed for the purpose.

(c) Nazpur Plan for post-war Read Derelopment, 1943 :

The Government of India convened a conference of Provincial and State Chief Engineers at Naspurin December, 1943 to consider the problem of portwar road development in India. The most important recommendations of this Conference (see also Annexure I) were:

- (1) Roads should be divided in to four classes, namely, National High-ways, Provincial or State Highways, District Roads and Village Roads, the National Highways, which were defined as highways running through the length and breadth of Iodia connecting major ports, foreign highways and capitals of Provinces of large States, being the frame work of the country's road system, and
- (2) The Centre should assume financial responsibility for the construction development, and maintenance of National Highways and they should have an effective say in the use and control of these highways.

After consultation with the Provincial Governments and after discussion at meetings of the Transport Advisory Council, the Government of India accepted with effect from the 1st April, 1947, complete financial liability for the development and maintenance of certain roads provisionally approved by them as suitable for inclusion in a system of National Histhways.

(d) National Highways Act, 1956:

Later in 1956 National Highways Act was passed declaring the National Highways and empowering the Central Government to declare any other highway to be a National Highway or omit any highway from the list of highways the 18th April, 1957. (See Amexare-11).

(c) 20 Tear Plan, 1961-81 for Road Decelopment:

The milette targets set in the Natpur Plan were achieved by the end of the Sanuel Fire Year Plan, but the road system remained deficient in many respected such as surface standard of some roads, weak or mising bridges etc. The political, economic and social changes that took place after the formulation of

the Nagoue plan, necessitated a fresh appealed of the transport requirements. The Government of Indianoteusted this task to the Chief Limineers, who prepare siew Road Plan for the 20 years period from 1961 to 1981.

The mainfeatures of the 20 years Plan (1961-81) were to reise the total road lingthfrom about 6,02,943 kms. in 1961 to about 1,057,341 kms. in 1981 with provision for two lane carriage-ways on the National Highways. The Plan akus at doubling the intensity of roads from 16 kms. to 32 kms. per 100 sq. kms of territory. When the Plan is completed, the average distance from a village in an agricultural area to a metalled road will be reduced from 8 kitometres, carriaged in the Nagpur Plan to 6.4 kitometres. Similarly, that from an unmetalled road will be reduced from 3.2 kms envisaged in the Nagpur Plan to 6.4 kms. The Plan also provides for 1609 kms. of Expressivay with limited access and also grade separation at most of the crossings. (See Annexure 111.)

The cost of this Scheme was estimated at Rs. 5,200 erores and the Chief Engineers recommended that funds for road construction and maintenance should come not only from the direct beneficiates i.e., the motor vehicles but also from the development of roads.

(I) Report of the Committee on Rural Roads, 1968 :

A one man Committee under the Chairmanship of Shri H. P. Sinha was appointed by the Ministry of Shipping and Transport in 1967. A summary of its findings and recommendations is given in Annexure-IV.

(E) Report of the G.T.P.C., 1966:

A Committee on Transport Polics and coordination was appeinted by the Covernment of India in 1959. It submitted its Final Report in 1966. Its important conclusions and recommendations relating to roads are given in Annexure IX.

Organisation and Administration of Roads

Unlike the Indian Government Ratiways whose administrative, financial and technical responsibility and control are centralised in a single authority, the Government roadrin India are under the decentralised administrative control of different levels of self-Government, viz., Central Government, State Governments, Edita Parishods, Block Samitis, Village Pauchayats and Municipalities. However, though statutory authority over roads in India is decentralised from national to local level, integration of local and national plan, for development of roads is sought through the devices of delegation of executive responsibility by the higher to the lower ters of self-Government, and sharing financial and technical responsibility by the higher with the lower levels of self-Government, Road development plans in India may indeed be an exercise intintegration of local and national road development plans.

è

The total road length under various levels of Government of India in 1971 72 was 11.30 lakh kms. of which only 4.72 lakh kms. was surface. The controlled and management of road lengths in India in 1971-72 were distributed as follows among the various tiers of self-Government:—

sfollows among the variation		**,
(In Lakh ki	ns.)
	Total Su	faced
Central Government:		0.06
(1) Roads decrared as National Highways	0.28	0.20
(2) Roads under the Military Engg. Service	0.07	0:06
(3) Roads under the Railways	0,04	0.03
State Government:		
(1) P.W.D. Departments	3.49	2,62
(2) Forest Department	1.15	0.05
(3) Irrigation	0.64	0.05
(4) Electricity Deptt	0.02	0.02
District Local Bodies	4.67	1.00
Urban Areas:		- 11.43
Municipalities, Cantonment Board, Port Trusts and other statutory bodies in urban areas	0.94	-0-63
Тотац	11,30	4.72

Considering the road lengths in urban areas as Municipal road length the road length softhe first four authorities given above are all Extra-Municipal oad lengths. The extension from time to time of the urbae area limits has been partly responsible for the variations, for instance, in national highway lengths. Another contributory factorfor the relative variations of road lengths and the relations of the lengths and the relations of the lengths. Strictics from one authority to another, such as consequent to upgrading or idougrading of a district, State or national highway. In stuyding the treeds in the road length of individual authorities, these limitations need to be kept

Theroad length given above for national highway includes 1,045 kms. placed
Theroad length given above for national highway includes 1,045 kms. placed
Roads Development Board (BRDB). The inderthe management of Border Roads Development Board (BRDB). The total foad leagth in India given above is, however, exclusive of the other road lengths maintained by the B.R.D.B.

The CONES Road lengths shown above do not provide the road lengths of village panchayats separately.

William Langer . .

(a) National Highways generally serve to connect the oational capital with the state capitals, major, port towns, horder areas etc. and provide the Central Government and uninterropted transport complimentary of railways for the pur-

Doverament ad unlater opted trainsport complimentary of railways for the purpose of clinter State and international trainsport and trade and national defence and internal security.

The National Highways Act, 1956, empowers the Government of India to declare or omir nny highway as National Highways. The 44 National Highways initially included, in the schedule to the Act were all extra-municipal under Section 2(1) of the Act. That is fiftey do not include such parts as were situated in municipal areas—a municipal area being defined as one with a proposal attorn 20 20,000, and more and under the contributed in municipal areas. lation of 20,000 and more and under the control and management of a municipal committee, town committee; town area committee or any other authority. The Central Government is, however, enabled by the Act to unfer into an agreement

Central Government is, however tenabled by the Act to enter into an agreement with the authority in control of the nunicipal area in relation to the development or, maintenance of any such part of a highway situated within the municipal arte on the basis of sharing of, expenditure thereof.

The Act vests in the Central Government not only the national highway togeths; but also the demarcated lands appurtenant thereto, all structures constructed on, or across the national highways such as bridges, culverts, tunnels, causeways, carringeways etc. and all trees, posts, fences and bounders add miles stones on the national highway or or the land appurtenant to the national highways. Under Section 7(1) of the Act, the Central Government may levy fees, for services or benefits rendered in relation to the use of ferries itemporary bridges and tunnels on any national highway.

While controland management of national highways lie with the Central Government, the latter may delegate under Sections of the Act, any of its functions in relation to the development and maintenance of national highway to the Government of the State in which the national highway is situated, or to any authority subordinate to the Central or State Government and call for periodical inspection, reports as well as report on works carried out on the maintenance of the control highway.

The actual works on construction and maintenance of National Highways are executed by the State Public Works Departments concerned, on an agency basis. For this, the State PWDs are paid 7-1/2% as agency charges. The works relating to planning, survey, investigations, specifications and supervision etc. are done by the State PWDs under the guidance of the Roads Wing of the Ministry of Shipping and Transport, and the actual execution of work is generally given to the contractors by calling tenders.

Apartfrom National Highways, in the country the Government of India in the Ministry of Shipping and Transport is also responsible for the development and maintenance of other roads in the Union Territories while the execution is carried by Union Territories Public Works Departments concerned.

In order to assist the State Governments in the development of road/bridge projects of inter-state or economic importance, the Government of India provides Central Financial assistance for selected projects I falling under this category. The pattern of assistance for such projects under the 4th Plan is 100 pet cent loan assistance.

(b) Roads Wing (Ministry of Shipping and Transport)

The administration of roads is carried out by the Roads Wing of the Ministry of Shipping and Transport. The Roads Wing is headed by a Director General (Road Development) who is also exoficio Additional Secretary to the Government of India. He is assisted by two Additional Directors General and number of Chief Engineers, Superintending Engineers, Executive Engineers and Assistant Executive Engineers. On the Secretariate side he is assisted by a Deputy Secretary and 6 under Secretariate

Apartfrom the combined Secretariat and technical organisation at the Centre, the Roads Wing bass Liason and Inspectorate Organisation, consisting of Engineer Liaison Officers attached to the Chief Engineers of various States. The Roads Wing has also some Regional Officer, which are located firthe States of Bihar, Maharashtra, Rajasthan, Uttar Fradesh Mysore and West Bengal. These, Offices have been set up with a view to exercise on the spot control on the projects control on the projects control on the projects control on the central Road Fund and other funds approved by the Central Road Fund and other funds approved by the Central Road Fund and other funds approved by the Roads Wing also nots as a repository of technical information on roads and bridges.

(c) Roads Administration Under Other Central Ministres .

(i) Roads under M.E.S. :

A Roads in the military areas are constructed and maintainted by the Military Engineering Service Department, These roads are financed by the Ministry of Defence.

(ii) Ronds under Railways t

These roads are constructed, maintained and financed by the Ministry of Railways.

(iii) Roads in backward areas :

For the administration of Roads in Backward Areas, 43 Special Multipurpose Tribal Blocks have been set up under the centrally sponsored programme, for intensive development of such areas. This scheme is being jointly financed by the Ministry of Home Affairs and the Ministry of Food, Agriculture, Community Development & Co-operation (Department of Community Development).

(iv) C. D. & N. E. S. Ronds :

Besides financing the development of Special Multipurpose Tribal Block the Department of Community Development in the Ministry of food Agriculture, Community Development and Co-operation is jointly responsible for the development of C.D. & N.E.S. Roads, together with the Public-Works Departments of the States and public participation by way of Shramdah, Bhoomidan, Sampatidan, etc.

(v) Cantonment Roads ;

All Cantonment roads, which serve the civil areas, are constructed and maintained by Cantonment Boards. These Roads are financed by the Ministry of Defence.

(vi) Border Roads:

In order to accelerate the economic development of the North and North-Lastern Border Areas, Border Roads Development Board has been constituted with the Prime Minister as Chairman and the Defence Minister as Chairman, The other members of the Board include, among others, the Cabinet, Foreign, Defence and Home Secretaries. The Board's responsible for laying down the policy in respect of border communications, prescribing priorities and specifications and theresponsibilities of agencies entrusted with the execution of the projects.

The Secretary of the Board is an ex-officio Joint Secretary of the Ministry of Shipping and Transport. Apart from the Secretariat of the Board, a technical Organisation has also been created with the Director General of Border Roads 23 its head.

(d) Roods Administration under State Covernments:

The States are left with the entire responsibility for the maintenance of :--

- (i) State Highways connecting with the National Highways or with the highways of adjacent States, district head-quarters and important cities of the States.
- (ii) District roads which serve areas of production and markets in the district connecting them with one another or with other highways and railways.
- (iii) Village roads connecting villages and groups o svillages with one another and with the nearest district road, highway, railway or river that.
 - (iv) Roads maintained by the Forest and Irrigation Departments.

State Highways are generally under the charge of the State Public Works Department with a Chief Engineer at the top. In some States e.g., Tami | Nadu and Andhra Pradesh, there is a separate Highways Department which looks after the development and maintenance of highways. The department consists of a number of circles, each responsible for a definite region. Each Circle is renerally under the charge of a Superintending Engineer. Each circle is further divided into divisions, each under the charge of a Divisional or Executive. Engineer, Each division is further sub-divised into sub-divisions.

Generally, district roads (mainly other district roads) and village roads have, for many years, been the responsibility of local bodies.

The administration of tural roads, i.e., Other District Roads and Village Roads differs from State to State. In the State of Maharashtra, the Zilla, Parishads have been given conviderable freedom and under their direction Panchayat Samitis and Panchayats are working. In the case of Tamil Nadu the organization of Zilla Parishads has yet to be formed. The Panchayat, Samities are working in close co-operation with Government staff. The system followed in other States fall in between these two extremes.

The roads maintained by Ferest and Irrigation Departments are entirely under the control and supervision of the respective departments.

THE CENTRAL ROAD FUND

The Central Road Fund came into existence in 1929 on the recommendation of the Jayakar Committee. To this fund, are credited the proceeds of the \$\delta\$ har additional duty on Customs and Excise on petrol. In the beginning the rate of this additional duty was 2 annas per callon of petrol. In 1931 this was raised to 2\frac{1}{2} annas. The prevailing rate is 16 pairs per gallon. The Fund is non-lapsing and has two sub-divisions (1) the Central Road Fund (Ordinary) Reserve and (2) the Central Road Fund (Special) Reserve Dithe proceeds eredited to the Fund, 80% are allocated to state government on the basis of petrol consumed within their respective territories. The balance of 20% is credited to the Central Road Fund (Ordinary) Reserve Contributions made by organisations like Ministry of Defence for road works under their control and supervision are credited to the Central Road Fund (Special) Reserve.

Out of the Q.R.F. (Ordinary) Reserve, grants are made for expenditure on escarch and experimental schemes and also for specific road and bridge construction projects.

THE CENTRAL ROAD RESEARCH INSTITUTE, NEW DELIN

The Central Road Research Institute was set up in 1950. It is an organ of the Council of Scientific and Industrial Research and its functions include:—

- Developing technology, by applied research, for investigation, design construction and maintenance of different types of toads, bridges and rugways.
- 2. Applied research on Traffic and Transportation Engineering
- Basic scientific research necessary for applied and development research in process under items 1 and 2 above and in consenance with national priorities.
- 4. Development of tools, insturments and appliances related to highways technology.
- 5. Rendering consultance services to the organisations in the related fields.
- 6. Organising reliesher courses for in-service highways engineers and extending specialised training facilities in the allied subjects.
- Dissemination of technical information pertaining to highway engineering and allied subjects.

The head of the Institute is a Director. The Institute has nine Research Divisions (each under a Scientist) and is provided with a widerange of specialised research and testing staff and equipment needed for work relating to various bracches of Highway Engineering Research such as Soil Engineering, Concrete and Bitumen Technology, Bridge Engineering. Test Tracks Construction operational Research on Highway Engineering Techniques and Traffic, Engineering and Traosportation. Testides research, consultancy services of the Institute render technical advice to the highway engineering organizations in the country for solution of various problems

For the benefit of highway engineers, the Institute has since 1952 been organising refrecher courses periodically for both senior as well as junior highway engineers. So far, 17 refresher courses for zenior and 16 courses for Junior highway engineers is no been organized in which 618" in-service highway one

gincers from State and Central PWDs, Border Roads Organisation, E-in-Cs' Branch, Union Ministry of Shipping and Transport, Municipal Carporations of the Course seminars for Institute was selected by the United Nations, and Course seminars for lughawn engineers from ECATE region countries, and as a result five such refresher courses have been held up so far in which, 84 as a result five such refresher courses have been held up so far in which, 84 singaporers from Afghanistan, Indonesia, Laos, Nepal, Philippines Singapore, Thailand, South-Victnam and India, participated. The Institute, Singapore, Thailand, South-Victnam and India, participated The Institute, on the instance of the Indian Rands Congress and the Planning Commission, net he instance of the Indian Rands Congress and the Planning in Urban Instance of the Indian Planning for highway engineers and town planners in India. Transportation Planning for highway engineers, the Institute very often organises Workshops/Extension Lectures in different States.

The Institute mnintains a mailing list having nearly 950 highway engineering research and allied organisations, both Indian and foreign, to whom all the research literature emanating from the Institute is sent on exchange basis.

INDIAN ROADS CONGRESS (I. R. C.)

The Indian Roads Congress was set up in 1934 and was formally registered in 1937 under the Registration Act of 1860. The Organisation of the I. R. C. is similar to the American Association of State Highway officials.

It was constituted to provide a forum far regular pooling of experience an ideas on all matters affecting the construction and maintenance of roads in India to recommend standard specifications relating to bridges and roads and to provide a platform for the expression af professional opinion on matters relating to roads engineering including such questions as those of organisation and administration.

The membership of the Congress enasists of Ordinary Members, Associate Members and Honnary Members. The membership represents Engineers of all ranks for Central and State Governments, Military Engineering Service and commercial interests.

The affairs of the Cangress are controlled by n Governing Body known as: Council. It consists of 36 members nominated by Government of India, Central P.W.D.. Engineer-In-Chief Branch, Central Road Research Institute and State Governments as well as selected from numngst the Ordinary and Associate Members. The Executive Committee, consisting of President, threevier Presidents, the Treasurer and Secretary, manages the day that only administration, examines and make recommendations to the Government on points arising out in connection with road development which cannot wnit for the meeting of the Council. The Director General (Road Development), Government of India is the permanent Treasurer of the office.

The technical activities of the I.R.C. are carried nut through its several Committees and Sub-Committees consisting of experts in particular subjects A list of important publications and papers of the I.R.C. relating to roads many be seen at Appendix II.

TARLE No. 5 (1)

TRENDS OF ROAD LENGTHS -AGENCY-WISE (1955-55 TO 1971-72)

(In Km.)

Agracica	lyr of m face	ır- 1955	- 146t)- 1965- 66	1970. 71	1371.
(1)	(2)	(3)	(4)	(5)	(⁶)	(7)
All Agencies	T S	17858- 208796			963949 420756	1129915 471982
A. Urban Roads	T	39331 25770		8397 t 55989	92688 6383 0	93723 63173
B. Ettra — Municipa Roadi,—	t.					
(1) National Highway:	. T	20835 19900	23798 21016		2411(23544	27912 25912
Out of which NH under B.R.D.B.	Ţ			302	915	1045
Out of which Musius	T		1374	425	365	435
iii) State Hichways and other PWD Roads		190812	257125	281099 33	35765	349261
•	ŝ				12789	262325
(in) Local bodies .	T :	227303 38124	197194 35886			66966* 0249*
(18) Forest Deptt	T S	•••	***		1195 1 3006	15413 4682

Includes 17,275 Kms. of roads constructed over GDENES Programme in the State of Bihar, Haryana, Kerala, Madhya Pradesh in respect of reporting districts only), Manipur, Meghalaya, Mysore, Nagaland, Orissa and Tripura,

TABLE No. 5 (1)-Contd.

Agencies	Type of sur- face	1955- 56	1950- 61	1965- 66	1970- 71	1971- 72
(1)	(2)	(3)	(4)	(5)	(6)	(7)
(v) State Irrigation partment .	De- T S			33910 1590	62290 4905	63916 5238
(vi) Electricity Deptt.	T S		•••	***	1686 1326	1686 1326
(vii) Railways (viii) Military Eogg. Ser	. T S rvice T S	***	***	754 484 4318 3973	4438 2975 6394 5899	4442 2978 6596 6095

Note:—In the carlier issues of this publication coundative total length of Katcha roads constructed by the CDENES Blocks have been included with the road lengths of other agencies to arrive at the total length of roads in different dates and in the Indian Union. It is now understood that the roads constructed by the Community Development. after a retransferred to PWD and Local Bodies in the State for maintenance. As such the figures of roads length reported in the earlier issues suffered from certain extent of double reckoning. In this issue, efforts have been made to rectify this deficiency. As such the figures of road length of the country as a whole as well as for different States reported in this issue will be less than similar figures incorporated in the earlier issues.

TABLE No. 5(2)

TOTAL LENGTH OF GOVERNMENT ROADS IN INDIA BY AGEN-CY IN WHIGH THEY ARE VESTED (ALL INDIA) (As on 31st March 1972)

(In Kms) Roads maintained by Goot Deptt / Unsurfa-Total Surfaced ced Arches (4) (2) (3) (1)Central Gost, National Highways 2000 27912 25912 State Highways 25198 8051 87117 Other PWD Roads 254063 78885 173178 Urban Bodies . 93723 30550 63173 Local Bodies 466966 366717 100249 Forest Departments 115413 110731 1682 frigation Departments 58678 63916 5238 Placericity Deptt. 1686 360 1326 Railways . 1464 4442 2978 Military Engr Service 6596 497 6099

1129915

657933

471982

All Agencies

Table No. 5(3)

ROAD LENGTHS BY SURFACE—AGENCY-WISE

(As on 31st March 1972)

(In Kms.)

Agency	Type of surface	AllIndin	Andhra 'radesh	Assam	Bibar
(1)	(2)	(3)	(4)	(5)	(6)
Agencies .	. Total US S	1129915 657933 471932	72702 30832 41820	30276 236 67 6609	116575 88040 28535
Urban Body	. Tota US S WBM BT CC	93723 30550 63173	3456 907 2549 1158 958 433	5966 8656 1710	14267 3832 1091 3
Extra Municipa Roads	ıl	•••	433	***	1
) National Highw	ays Total US S VBM BT CC	27912 2000 25912	2299 66 2233A 14 2103 116	1652 282 1370B 38 1332	2117 422 1695B
ii) State Highwa	US S WBM BT CC	95198 8051 87147 9313 75263 2571	5047 5047 230 4698 119	1053 915 738 738	14118 2752 11686 11686
Other PWD	Roads Total US S WBM BT CC	254063 78385 175178 6112: 113483 570	5 4548 10028	15270 13499 1771 6 1765	2000 142 1858 1858

A As on 31-3-1971. B As on 31-3-1970.

TABLE No. 5 (3)-Contd.

				(In	Kms.)
Agency	Type of surface	Gujarat	Haryana	Himachal Pradesh	Jammu & Kashmir
(1)	(2)	(7)	(8)	(9)	(10)
All agencies	Total US S	43395 21218 22177	13521 2262 13259	12017 9197 2850	8826 3462 5564
A. Urban Body .	Total US S	5523 2031 3492	490 49 441	2049 1846 203	497 394 103
	ivem et cc	•••	51 374 16	•••	•••
B. Extra Municipal Ros (1) National Highways	ads Total US S WBM	1335 1335	729 520 677B	464 464 464	541@ 541 511
*** ****	CC		553 124 2650	2927	- 748
(11) State Highways	Total US S WBM BT CO	8269 832 7437 501 6141 795	2650 2650 22 2628	1596 1331 1331	118 630 54 576
(111) Other PWD Roads	Total US S WBM BT CC	1904 708 1196 511 685	8840 8840 2884 5956	5439 4833 606 606	5948 1563 3785 1964 1821

B As on 31-3-1970.

@ Include sroads under BRDB.

TABLE No. 5(3)-Could.

				(***	
Agency	Type of surface	All India	Andhra Pradesh	Assam,	Bihar
(1)	(2)	(3)	(4)	(5)	(6)
(iv) Local Body	- Total US WBM BT CC	466966 366717 100249 	39565 23300 14265 13680 583	3067 2880 187 89 96	65564 63342 1722

(In Kms.)

TABLE No. 5(3)-Confd.

Agency	Type of surface	Gujarat	Haryana	Himachal Pradesh	Jammu & Kashmir
_(1)	(2)	(7)	(8)	(9)	(10)
(iv) Local Body	. Total US S WBM BT CC	24286 16003 8283 1683 3597	352 2 350 		***

Table No. 5(3)-Could.

(In Kins.)

Agency	Type of Surface		Madhya Pradesh		Mesha- Iaya
(1)	(2)	(11)	(12)	(13)	(14)
All Agencies	Total US S	121124 77660 43464	84054 47702 36352	97278 50775 46433	6668 5811 857
A. Urban Body .	Total US S WBM BT GG	1774 1089 685 290 365 30	3994 510 3484	7386 2040 5346 1540 3288 518	428 200 228
B. Extra Municipal Roads					*-3
(i) National Highwa	ys Total US S WBM BT CG	449 449 428 21	2668 158 2510	2861 459 2402	
(ii) State Highways	Total US S WBM BT CG	2146 2146 2098 48	10635 712 9923 1813 8109	14899 58: 14314 3945 947: 897	£ = = = = = = = = = = = = = = = = = = =
(iii) Other PWD Ro	oads Total US S WBM BT CC	772	3 9436 1 18831 3 10496	. 6	9 261 35 37

[£] Includs 852 Kms. (735 Kms surfaced) of S. H. under Zilla Parishads.

Tante No. 5(3)-Could.

Agency	Type of Manipur Surface	Karnataka	Nagaland	Orissa
(i)	(15)	(16)	(17)	(18)
MAgencies:	Total 8627 (US) 7406 8 1221	99058 44155 54903	4821 3893 928	57138 ~ 46311 10827
Irban Bodies		14744 4630 10114 5922 4015	58 16 42	3202P 2043P 1159P
xira Municipal Roads) National Highways	Total 211 US	177 1996 40 1956	103	1649 374 1275B
) State Highways	WBM: 26 BT 205 CC	128 1758 70 6005	619	2176 83
ii) Ohaa muin s	S 622 WBM 174 BT 448 GC	6003 180 5512 311	619	2093 154 1939
(1) Other PWD Roads	Total 1780 US 1468 S 312 WBM 164 BT 148	42511 10369 3214 17930 14176	2901 2828 .73 .73	7459 6196

Table No. 5(3) - Conid.

	Astacy	Type of Surface	Kerala	Madhya Pradesh	Maha- Mersi rashtra lara
	(1)	(2)	(11)	(12)	(13) (14)
(iv) Local Body	. Total US S WBM BT CG	191350\$ 72813\$ 28517 8052 564 29	2393 1929 466 407 1	57160 2501 36208 2509 20932 1 18355 79

^{\$} Excludes 19352 Kms. of roadslength under Paochayats for which breaks; is not available.

Agency ,	-	Type di surface	Panjab To	dusthan r	efil- adu
(1)		(2)	(3)	(1)	(3)
ill Agencles		. Total US S	29721 14633 14830	50038 - 5 26460 - 4 23558 - 5	12030 10187 1613
A, Utban Body	•	Tetal US S WBM BT CC	-1813 136 677 55 530 -32	2560 902 1458 304 759 395	6457 1147 5320 1213 3482 625
A. Extra Maxicipal Reads (i) National Highways	•	. Total . US . S . WBM . BT . CC	587 587 537	2089 1 2089 2089 2089 3	1749 96P 1653A 460
(ii) State Highways		. Total	1820	8568 1049	1780
	-	S WMM BT	1820	7619 1143 6460	1580
(iii) Other PWD Reads		CC Total US S	10139	16 22148 10266	53321 160
		CC DT MBM	10439	11882 4320 7536 26	2360 376 1979 11
(ie) Lecal body .	•	. Total US S WBM BT CC	1382 855 527 527	*** *** *** ***	5391 3508 1860

P-Provisional

Table No.5(3)—Conid.

Agency	Type of surface	Tripura	Uttar Pradesh	West Bengal	Union Territories
Estate (Distance)	(2)	(22)	(23)	(24)	(25)
All Agendes	Total US S	3862 2814 10 4 8	112161 75723 36438	53274 33106 20168	11969 14471 7498
A. Urban Body	Total US S WBM	39	10008 1645 8353	6303 2249 4054	4321 1595 2726
B. Extra Municipal Road	BT CC	400	•••		•••
) National Highways	Total US	200	2246	14818 50	•••
	WBM BT: CC	200	2246	1431	325
ii) State Highways	Total US	136	7379B	2334	840
	S WBM BT CC	136	7379 1016 6258 105	2334 2253 81	840 80 760
(iii) Other PWD Roads 7	Cotal US, S WBM BT CC	2691 2021 670 356 314	19178 5210 13968 5739 8112 126	11316 2298 9018 2345 8673	3404 580 2824 1197 1623 4
(iv) Local Body	Total US WBM BT CO	430	21437 19530 1907 1421 483	27259 25382 1877 1442 322	1606 1429 177

^{\$} Includes 62 Kms. of NH in Sikkim. B-As on 31-3-1970.

TABLE No. 5(3)-Contd.

- Agency	Type of turface	AllIndia	Andhra Pradesh	Assam Bihar
(1)	(2)	(3)	(4)	(5) (6)
(v) State Forest De- partments.	Total US S	115413 110731 4682	5033 2938 2095	2728 13289 2728 13289
(vi) State Irrication Departments.	Total US S	63916 58678 5238	815 423 392	(130) (4023) (130) (4023) 14009
(vii) Electricity Deptt.	Total US S	1686 360 1326	104 26 78	48 12 36 58
(vii) Railways .	Total US S	4442 1464 2978	219 91 128	596 643 125 240 471 397
(ix) Military Engg.	Total US S	6596 1497 6099	256 256	366 199 40 \$26

TABLE No. 5(3)—Contd.

Agency	Type of surface	Gujarat	Haryana	Himachal Pradesh	Jammu& Kashmir
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(2)	· (7)	(8)	(9)	(10)
(v) State Forest De-	Total US:	1416 1393 -23		922 922	(232) 206 (26)
(vi) State Traigation Departments.	Total US: S	266 122 144	•••	***	927 728 199
(vii) ElectricityDeptt.			· . · 50 · 20 · 30	2 ***	***
(viii) Railways	Total US S.>	314 128 18	6	* 1	
(ix) Military Engg.	Total US S	82 81	258 258	241 241	533: 253 280

TABLE No. 5(3)-Contd.

A	gency	Type of surface	Kerala	Madhya Pradesh	Maha- rashtra	Megha
	(1)	(2)	(11)	(12)	(13)	(14)
(v)	State Forest Dept	t. Total US S	(1753) 1399 (354)	32918 32696 222	11273 11037 230	154
(v1)	State Irrigation Departments	Total US S	285 175 110	2372 2112 260	1088 289 799	ومعفرات التبار
(vii)	Electricity Deptt	. Total US S	- 373 44 329	38 38	$\frac{\cdot 2}{2}$	84 46 38
(viii)	Railways .	Total US S	50 24 26	429 149 280	220 22 193	, , , , , , , , , , , , , , , , , , , ,
(ix)	Military Engg. Service	Total US S	70 3 67	338 338	.110 8 102	16.3

TABLE No. 5(3)—Conid.											
Agency	Type of Surface	Manipur	Karna- taka	Nago• land	Orissa						
Section 1	(2)	(15)	(16)	(17)	(18)						
(v) State Forest Dept	Total U.S. S	149 149	2434 1746 688	294 281 13	6530 6530						
(vii State Krigation Department.	Tothl US S		2942 1229 1713	****	644 						
(vli) Electricity Deptt.	Total U.S. S	ر سفوا مقدام محدد	6 \$	عدو 							
(viii) Railways	Total US S	و معید مختبه مجتبه	, 85 39 46	$\frac{20}{20}$	204 129 75						
(ix) Military Engg. Ser	Total US S	11	92 · 9 83	58 58	38 1 92						

Table No. 513)-Cott.

- Ақовсу	Type of sariace	Pesiah	Raista Tarriff
(1)	{2}	(3)	(4)
(v) State Forest Department .	Total US S	154 134	3110 2350 3110 2971
(vi) State Irrication Department	Tetal US S	(13347) (13742) (105)	11242 1463 11109 1205 193 205
(vii) Electricity Deptr.	Total US S	, b.s. 275 1044	10 158 15 550
(viii) Railways	Total US S	20 17 11	171 V 237 28 171 143 165
(ix) Military Engg. Service .	Total US S	. 671 7 664	273 166 6 47 219 129

Note: Figures in brackets erlate to earlier year.

Taren No. 503 — Const.

Agency True of surface	Tripara	tinar Peadesh	West firegal	Laten Certitories
(3)	((;)	(7)	(6)	(4)
(b) Sinc Forest Dr. Total	150 358	25700 25780	3409 2907 502	999 4 18 183
(ri) State Treigation Total	Georgia Georgia Juana	24578 23404 1166	***	.,,
vii) Electricity Depti. Total	Section 1		40 • 32	182 32 130
Total US	. 1	513 118 395 -	376 200 376	50% hos
(u) Military Tanke, Total	. 6 4 2	1050 36 1014	556 12 544	238 238

TABLE No. 5 (4)
MISSING LINKS ON NATIONAL HIGHWAYS (STATE-WISE)
(As on 91-3-1972)

	S	tate/[Jnion	Terr	itory		***************************************		National Length Highway in Kms. No. Missins Links
, 5			(1)) •					(2) (3)
	·Bihar .	•	•	•	•	•		•	28 120°,
	Kerala .	•	•		•				47A
,	Madhya Prade	sh.	•	•		•			12. 57
	Mysore .		•	•					13 158
,	Orista .	•	•	٠	٠				6 35
	Rajasthan .	•	•	•	•	•	•	•	H RESERVE
,	Tamil Nadu	-	•	•		•			49
	Uttar Pradesh	٠.	•	•	•				11 13
٠.	West Bengal	•		•	•	٠	•	•	417
	s.					To	TAL	•	435

[·] Provisional.

TABLE No 5 (5)

NATIONAL HIGHWAYS LENGTHS BY NATURE OF SURFACE AND BY WIDTHS

(As on 31-3-1972)

4								(In	Lms)
State/Union Ferritory	,	Surface	ed		Uns-	Grand Total	Wie	lth-1(15	c
,	СÇ.	BT.	W.B M.	Total	tal ced	10131	Upto 12'	12 to 24'	Above 24'
(1)	(2) ;	(3)	(1)	(5)	(6)	(7)	(8)	(9)	(10)
Andhra Prade:	116	2103	14	2233		2233	1451	782	
Assam (B)	•	1174	38	1212		1212	38	1174	
Bîhar	***		•••		••				
Gujarat (II)	100	956	~	1056		1056	102	654	_
Haryana (B) 3	124	553	-	677	5	682			
Himachal Pra- desh	_	4G4`		464		464	l	464	
I&K*,		94	-	94	'	94		47	ŧ7
Kerala	1 1121	328	_	349**		349		349	
Madhya Pradesh (A)	7°1 '	2418		1	2	668@	2059	451	
Maharishtra (B)	51	2288	63	2402	1	2403		•••	
Manipur ,		205	6	211	~~	211	211		~~
Meghalaya		166		166		166	131	35	

5

Table No. 5 (4)
MISSING LINKS ON NATIONAL HIGHWAYS (STATE-WISE

(As on \$1-3-1972)

	St	ate/L	Jaion	Terr	itory				National Highway No.	Length in Kms- of Missing Links
*			(1)) •					(2)	(3)
Bihar	•	•	•	•	•	•	•	•	28 30	120*
Kerala	•	٠	•						47A	ه (د کرد د د د د د د د د د د د د د د د د د
Madhya I	?rade	sh.		•	•				12	57
Mysore	•		•	•	•			•	13	158
Orissa	•	•	•	•	•				6	35
Rajastha	١.	•	•	•	•			٠.	11	-
Tamil N:	ıdu	-	•						49	سر <u>ئے۔</u> '' ' م
Uttar Pra	idesh	•	•	•	•		٠		11	13.
West Ber	igal	•	•	•	•	•	٠	•	41	52
						То	TAL	•		435

^{*} Provisional.

TABLE Nd. 5 (5)

NATIONAL HIGHWAYS LENGTHS BY NATURE OF SURFACE AND BY WIDTHS

(As on 31-3-1972)

List List			firs an		,				
	,	3 *		* (•		(In	kms)
State/Union	1	Surface	d		Uns-	Grand	Wid	lth-wis	c
Territory	C.Ć	BT.	W.B. M	Total		Total .	Unto 12'	12 to 24,	Above 24'
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Andhra Prades	h 116	2103	14	2233	_	2233		1 . 782	2
Assam (B)	_	*[174	38	1212		1212	38	1174	ł
Bihar	***	- 1	•••		••			• • •	
Gujarat (B)	100	956		1056	, _	1056	402	654	-
Haryana (B)	124		_	677	5 !	682	' :	•••	••
Himachal Pra-	_	464	. · <u> </u>	464		464	1	464	, <u>-</u>
1&K*-		94	_	94		94		47	47
Kerala	^{8 6} 21	328	·	349**	١	349	· / _	349	
Madhya Pra- desh (A)		1 1		2510		2668@	2059	451	,
Maharashtra (F	5)	2288	63	2402	1	2403		•••	•••
Manipur		. 205	6	211		211	211		_
						1.00	121	35	-

166

Meghalaya

35

166

131

TAPLE No. 5 (5) -Contd.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Alysore	70	1758	128	1956	12	1968		•••	•••
Nagaland .	-	103		103	 .	103	87	, 16	
Orissa (B) .	2	1189	84.	1275	B3 [°]	133B	1245	113	, :: <u>_</u> ;
Punjab \$.	_	587		587		58 7	•••	•••	: .
Rajasthan (B) .	-	2089		2089		2089	٠		•••
Tamil Nadu(A)	193	1460		1653		1685£		•••	
Triputa	•••	***	•••	•••	•••	•••	•••	•••	
Uttar Pradesh	317	1865	33	2245	3	2248	•••	•••	***
WestBengal	95	1336		1431	50	1481	•••	•••	:
U. Terificries	_	325			-	325	•••	•••	

⁽A) As on 31st March, 1971.

⁽B) As on 31st March, 1970.

⁽C) As on 31st March, 1969.

^{*}Excludes lengths of roads under B.R.D.B.

Eincludes 32 kms of missing links.

S Does not include length of NH No. 15 which was declared after 31-3-72

[@]Include \$59 kms of lengths within Municipal limits and 89 kms, of missing links.

^{**} Excludes 102 kms. of length within Municipal Limits.

TABLE No. 5 (6)

GROWTH OF ROAD LENGTHS OF NATIONAL HIGHWAYS (TOTAL AND SURFACED)

(1960-61 to 1971-72) (State-wise)

	-1, 4%	. •		(In	kms.)
State/Union Territory	Total Sur- faced	1960-61	1965-66	1970-71	1971-72
(i)	(2)	(3)	. (4)	(5)	(6)
Andhra Pradesh	T	2272	2293 2169	2233 2233	2299 2233
Assam	TS	1170 1078	1400 1400	1370* 1370	1652 1370*
Blhar	T	1913 1337	1913 1677	1914 1695	2117 1695*
Gujarat	T	1088	1040 1021	1056 1056	1335
Haryana	Ť S	ris ()	**	681* 676	729 677
Himachal Pradesh	T S	922 31	977 5 104	375* 368	
Jammu & Kashmir	. T	544 544	520 520	,520 * 520	541
Kerala	T S	418 402	The Prince of the Park	449 449	449

(1)	•	(2)	22 (3) 12 23 (3) 12	511 100 mg	11 \$7 P\$ 1 (5)	(6)
Madhya Pradesh	•	. т s	2686 2218	2674 2585	2667 2578	2668 2510
Maharashtra	•	. T	2393	2446 2440	2403* 2402	2861 2402
Manipur -	•	. т s	T.E.	J.L.	209*	211 211
Meghalaya •	•	. T	er /0	%	, , , , , , , , , , , , , , , , , , ,	161 161
Kainataka 🗼 .	•	. T	1269 1041	1269 1185	126977 1185	1936 1936
Nagaland	•	. T	, 111 111	111 103	103	103
Orisia .	•	. T	. 1371 1172	1371 1255	1358* 1275	1649 1275
Punjab	•	. т s	1252 1247	1342 1342	514* 514	• ₹:587 587
Rajanhan Ang	•	. т s	1258 998	, 1256 1255	1256 1256	2089
TamilNadu as	•	, T	1690 1682	1656 1656	1685 1653	1741 1653
Tripara - 64	•	T S		100d	* **	7200% 200%
Utiar Pradeile	`.	T S	2343 2256	.2268 2461@	2246 2246	2246 2246

TAALT No. 5 (6)-Contd.

1	-	2	3 3	4	5	б
West Bengal% .		T S	1401 1256	1403 1392	1483 1431	1481 1431*
Union Territories .	٠	T S	284 284	- 290 290	325 325	325 325
TOTAL	<u>.</u>	r s	23798 21046	21036 23261	21116 , 23544	27912 25912

^{*}As on 31-3-1970.

^{**} Included under Punjab.

[&]amp; Includes road lengths in Municipal Limits.

^{1, @} Includes 203 kms of N H. within Municipal Limits.

^{££} Included under Union Territories.

[%] Includes 62 kms, of N H, in Sikkim.

B Includes 161 kms. of road in Methalasa.

^{36%} Provisional.

TABLE No. 5 (7)

GROWTH OF ROAD LENGTHS IN URBAN AREAS (TOTAL AND SURFACED) (STATE WISE) $\,$

(1950-61 to 1971-72)

					(ln Kms.) //
State/Union	Tèrritory	Total Sur- faced	1960-61	1965-66	1970-71	1971-72
(1	}	(2)	(3)	(4)	(5)	(6)
Andhra Pradesi	i ,	. т	2295	, 2295	2295	3456
	,	s	1551	1551,	1551	2549
Assam		. T	. 236	4058	5366D	5366
		· T	65 × 198	√ √1313	1710	1710
Bihar		T		142670	14267C	142670
		, S		. 10915	10915	10915
Gujarat		, T		4634	5591	5523
		` s		2731	3543	3492
Haryana		. T.	•	• •	621D	490
		ែន	``		621	441
Himachal Prad	lesh '.	T	2049	2049	2049D	2049D
	· .	۰. S	203	203	203	203 %
raminu & Kar	hmir.	T	° 119	479E	479E	479É
	n e e e	, s,	. 88	103	103	103
Kerala		T	2402	1708	1593	1774
		S.	1354	668	563	685

* ' (1	}			(2)	(3)	(1)	(5)	(6)
Madhia Prac	lesh	•		T		2549	3994Г	3994F
1				s	-	1972	3181	3184
Maharasthra				${f r}$	5694	6612	7296D	7386
				s	3887	1100	5074	5346
Meglialava			•	\mathbf{r}				428
"				S	444	•••	• •	228
Manipur		•		\mathbf{r}	6	181	181F	178
				5	6	9	9	65
Karnataka	•			T 5	8826*	12867	14428P	14744
				5	6751	8985	9898	10114
Nagaland		•		r	•••	58	58G	58G
				5		42	42	42
Orissa .		•		T	6127	6127H	612711	3202**
				S	3803	3803	3803	1159**
Punjab 💂		4		T	1804	1827P	813D	813D
				S	1480	1498	677	677
Rajasthan	•	•		${f r}$	708	708	2360D	2360D
				s	634	658	1458	145B
Tripura .	•			T	32	32	39	39 r
				S	26	32	39	39 r
Tamil Nadu	۱.			T	4566	5181	609 7 D	6467D
				S	3635	4288	5151	5320

TABLE No. 5(7)_Cortd.

(1)			(2)		(3)		(4)		(5)		,6)
Uttar Pradesh	•	•	T S		5125 3762		917. 751	-	10008 836		10008 8363
West Bengal .	•	٠	T S		4393J 2707		459 270	-	630 405		6303D 4054
Union Territories	٠		T S	-	1777 1775		452 259		*276 256		4321 2726
TOTAL	•	•	T S		46361 31863	1	8397 5598		926 6389		93723 63173
B—As on 31-3 C—As on 31-3 D—As on 31-3 E—As on 31-3 F—As on 31-3 H—As on 31-3 P—As on 31-3 F—As on 31-3 *Estimated.	-19 -19 -19 -19 3-19 3-19 -19	55. 70. 54. 59. 66. 62. 53.	only			•			1 9	•	•
r		-					٠	٠	•		
#s L		t				1	•	٠	•	**	۶ -

TABLE No. 5 (8)

NUMBER OF MAJOR BRIDGES ON NATIONAL HIGHWAYS (STATE-WISE) (1955-1956 to 1971-72)

(Year ending March)

State/Union 1 Territories	956 :	1961	1966	1967	1968	1969	1970	1971	1972
(1)	(2)	(3)	. (4)	(5)	(6)	(7)	(8)	(9)	(10)
Andhra Pradesh	3	·" B	11	13	13	13	13	13	15
Assam -		1	11	11	13	12	12	12	12
Bihar	4	5	12	13	13	13	15	15	15
Gularat	2	'. 9	16	17	. 17	19	19	19	19
Haryana				-					
Himachal Pradesh			-						
Jammu & Kashmir	1	• 5	8	8	8	8	8	8	8
Kerala		2	2	3	3	3	3.	3-	5
Madhya Pradesh	· 2 .	4	5	5	6	7	7	7	8
Maharashtra	2	3	8	9	11	11	13	13	14
Myzore	-					٠ ١	' I	2	3
Nagaland	<u></u>	-		-	-	-			
Orissa	5	7	13	17	17	17	17	17	17
Punjab	1	3	3	3	; S!	6	6	S	6
Rajasthan	`'1	. • 2	.4 .	. 4.	47	4	4	4	4
TamilNadu	3	.7.	9	9	9	9	10	10	ľ0
Ultar Pradesh	2	4	10	11	12 .	İ2	13	13	14
West Bengal	7	13	27	29	31	31	31	.31	32
Union Territories		1	1	1	1	1	2	2	2

TOTAL (33 74 140 153 159 165 174 175, 185

Nore: The Figures relate to the number of major bridges Completed since

TABLE No. 5 (9)

MAXIMUM LADEN WEIGHTS PERMITTED FOR VEHICLES ON NATIONAL HIGHWAYS IN STATES/UNION TERRITORIES

(As nn 31st March 1972)

(In Metric Tons)

State/Union Territory	Road/Area	Maximum La Permitted	iden Weights	
	·	Ordinary Vehicles	Articulated Vehicles	
(1)	(2)	(3)	(4)	
Andhra Pradesh .	Andhra Region Telangana Re- gion.	R.L.W. R.L.W.	· · ·	
Assam@· · ·		10-16	. 4.	
Bihàr£ · · ·		12-25	;	
Gujarat£		10.89 to 14.97	,	
Haryana@		15.24 20.30 (for six wheelers)	¥.	
Jammu & Kashmir@	Jammu Province In Plains In Hills .Kashmir Province	12-25 8-17 3-91	#* . *** 4. . **	
Kerala£ . • •	<i>;</i>	12.19	18.29 (Subject to limitation imposed na weal and old bridges)	
Madhya Pradesh£ .	**	10.89	·	
Maharashtra	Bombay-Poons Road and BombayAgra upto	10-89 to 14-97		
	Nasik -	22.68		

	(1)		(2)	(3	3)	1	(4)
Mysore	•••		N.H. No. 4 and 9 N.H. No. 7 and 13	15.24 }	***************************************	17.88	2. A. J.
Nagaland &				12.00	•	•	
Orissa £				8.64			
Punjab £				12-19			
Rajasthan%	•		Udaipur Region Jaipur Region Jodhpur Region Bikaner Region	10.45 R.L.W. 6.53 6.53		• • •	(. :
Tamil Nadu	•	•		15·00— 15·24		to loa	(Subject d being) ty of the res,
		•		13•21 to 1	5.24		٠
West Bengal £		•		14.22			
Delhi@			•	12-19	•.		
Himachal Prac	lesh@		,	8.20		• •	
Manipur@	•	•	Mao-Imphal N.H. Imphal-Mardh N.H.	8.20 · 5.08 ·	`, 1º \	• • •	1. 10.00
Tripura@	•	٠	Agartala-Assam Road	10-18			
. Goa, Daman &	Ł Dlu	@		15.00	: -: (1)		ا الموادية والمراجعة الماريخ المراجعة المراجعة
%Data for	1965	,					,

*Data for 1965 £Data for 1971 @Data for 1969 *Data for 1968

TABLE No. 5(10)

MAXIMUM LADEN WEIGHTS PERMITTED FOR VEHICLES ON STATE HIGHWAYS

(As on 31st March, 1972)

State/Union	Road/Area	Maximum Laden Weights Permitted					
Territory	•	Ordinary Vehicles	Articulated Vehicles				
(1)	(2)	(3)	(4)				
Andhra Pradesh .	Andhara Regio Telengana Regio	n 12-19 to 15-00 on Full Registered LadenWeight	18.03 Full R.L.W.				
Assam @	•	10-16					
Bihar*	•	12-25					
Gujarat*	•	10.89 to 13.97	ۇر ^ە دە د				
Haryana@ ·	•	15.24 .	20-30 (Four				
Himachal Pradesh@). Single Lane Roads	8-2	cles)				
Jammu & Kashmir (@ James Provinces Roads in Plain HillRoads Kashmir Pr vince	8.17					
Kerala*	• .	12-19	19-29 (Subject to limitation imposed on weak and old				
Madhya Pradesh*	•	10-89	bridges).				
Maharashtra .	•	10-89 to 17-01	و الأدروف والان أحرار والان				

(2)	(3)	(4)
Manipur		
	. 1.02 to 3.	05
One carrying R	oad 12-19 to 15	-24 17-88
Roads		
Nassland	18-29	
Orisin	6-80	
	8-64	
Punjab		
Ralesthanes	12-19	ų,
the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	stt. 10-00	•
Bikaner Distt. Ilminhunu Dis	11.00	
Ganganagar Dis	tt. 14.38	
Amir Nadu	15-24	Upto RLW (Sub-
પ્રસ્થિતિ કોર્સ કરી અન્દર્શ		ject to load
		bearing capacity
A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		tures)
· · · pura	12.70	, · · ·
Itiar Pradeshi % % C.C.S.H.	-	£ 1 1
	15·24 13·21	,£
est Sengal		Sec. 21.
oa, Daman & Diu	14.22	ي ر في
odicherry	15.00	
Control of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	12.00	1 4
<u> </u>		

Mas on 31.3.1968.

(As on 31-3.1969.

As on 31-3.1971.

Minformation in respect of other districts is not available;

Table No. 5(11)
NUMBER OF AVENUE TREES ON NATIONAL HIGHWAYS

State/Union Terri	tory				At the commen- cement of the year	Planted during the year	At the end of the year
(1)				(2)	(3)	(4)	(5)
Andhra Pradesh	•			1957	173,410	1,677	172,33
Assam				1958	10,661	3,528	9,979
Bihar				1962	115,119	4,742	117,734
Gujarat				1967	95,375	12,804	97,722
Haryana				1972	432,819	182,353	579,110
Jammu & Kashmir				1969	59,914	38,460	75,246
Kerala				1967	10,330	155	10,141
Madhya Pradesh				1965	35,948	1,949	36,621
Maharashtra .				1967	151,466	5,902	147,174
Mysore				1972	89,791	7,980	97,362
Nagaland .					_		(مينو)
Orissa			. •	1967	46,336	1,082	46,809
Punjab			•	1972	1,678,269	35,680	1,713,869
Rajasthan .		• •		1970	59,868	· ·	59,556
Tamil Nadu .				- 1973	129,842	12,346	134,73
Uttar Pradesh .				1967	42,125	308	41,053
West Bengal	٠.	٠.		1960	55,574	5,947	61,088
Delni, · · · · · · ·	138	12,55		1967			10,606
Himachal Prades	i		θ	1972	2,729	ب <u>ٽ ۾ س</u> ن و	· ·-2,659
Manipur	٠	٠.	-		-Included	in Assam -	
BRDB (J & K)	•		•	1972			28,961
Total					2,200.71	2 227.553	9.443.752

TABLE No. 5(12)

EXPENDITURE ON ROADS BY STATE AND CENTRAL GOVERNMENTS (ALL INDIA)

(Rupces in million)

Year ending	Centi	Ala.		States*			Total			
March lop- ment	te-		Deve- lop- ment	Main- te- nance	Total	Deve- lop- ment	Main te- nanc	· [Total		
(1) (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
1960 167-4	52.11	219.4	384-8	302.3	687-1	552-2	354.3	906-5		
1965 443-0	73.6	516·6	579.0	483.1	1062-1	102210	556-7	137817		
1966 517.0	81.9	598-9	678*5	519-2	1197-7	1195*5	601+1	1256.0		
1962 434-8	7615	511.3	624.2	523-1	1147:3	1059.0	299+6	1628+6		
1969 263-5	73 6	337-1	702-3	737.9	1440-2	965-8	811.5	1777'5		
1969 236:1 1	13.7	349-8	806.7	807-2	1613-9	1042 · B	92019	1963.7		
1970 160 6 1	29.7	290.5	8n6 ² 2	856-8	1743+0	1047*0	986.5	2033-5		
1971 264-0 1	53.5	417-5	1160-2	£ • 600	215815	1424-2	1151*8	2576-0		
1972 449-2 1	66.1	616-3		111077		1773-2	1276-8	3050•0		

Including expenditure on roads in Union terriories and urban road Espenditure on Urban Roads are Estimated?

Source := (1) State Bederis and State Corernmentel

(III Mining of Shipping and Transport, Annual Repor

TABLE No.: 5(13)

CENTRAL AND STATE EXPENDITURE ON ROADS COMPARED TO CENTRAL AND STATE REVENUES FROM ROAD TRANSPORT (ALL INDIA)

(Rupces in million)

1,24	C	Jentral	5	Statesine Urb:	luding n area			Total		
Year ending 31st · March	Re- venue			nue* d	xpen- iture estima- ed	of Ex- pendi- ture to Reve-		Expen- diture estima- ted	of Ex- pen- di- ture to Reve-	
(1) 1 /	(2)		(4)	(5)	, (6)	nue (7)	(8)	(9)	(10)	
		219-4	27.6	551.5	687	1 124	6 1346	7 906	6 67•3	
								0 1578*		
1966	2728•3	598•9	22.0	1267-3	1 197-	7 94.	5 3990•	6 1796	6 45 0	
								3 1658.6		
1968	8240-3	337-1	10-4	1679.8	1440•	2 85.	7 4920	1 1777	3 36.1	
	3686:3	349.8	9.5	1857*4	1613	9 86	9 554	4 1963	7 35:4	
1970	4033	7 290 5	7•2	2031-0	1743	0 85	8 6064	7 2033	5 33 5	
1971	4518	1 417 5	9-2	2313-6	2158	5 93	3 6831	7 2576	Ő (37•7	
1972	5448	9 615-9	11-9	2582	2434	7 94	3 8031	2 3050	0 38.0	

^{*}For details see Revenue table.

SECTION-6 MOTOR TRANSPORT: ADMINISTRATION

ROAD TRANSOPAT , MOTOR TRANSPORT ADMINISTRATION

Road Transport is regulated under the provisions of Motor Vehicles Act, 1939. This Central Act (Act 4 of 1939) as amended upto 1969) is an act to consolidate and amend the law relating (o Motor Vehiclesin India.

Tale Act lays down laws relating to licensing of drivers of Motor Vehicles, Control icensing of conductors of Stage Carriage, Registration of Motor Vehicles, Control of Transport Vehicles, Construction Equipment and maintenance of Motor Vehicles, Control of Traffic (Including limits of speed, limits of weight, limitation on use, parking places for Public Service Vehicles), Insurance of Motor Vehicles against Third Party Risks and on offences, Penaities and Procedure,

This Act is administered by the State Governments who, with the concurreace of the Central Government, can introduce amendments to the various provisions in the act, keeping in view the local needs and circumstances. A Commission of the free land of

Registration of Vehicles ...

Generally the Regional Transport Officers in the different States are under State Transports Commissioners. Transport Directors and Transport Controllers are in-charge of Registration of Motor Vehicles under the Motor vehicles Act. This work is done by the Superintendent of Police of the districts in Bihar. Fricts in Bihar ?

Control of Commercial Transport

The operation of commercial motor transport is regulated through a system operation of commercial motor transport is regulated through the permits. Unless covered by a primit gravited or counterigned by a Regional Transport Authority (RTA) or a State Transport Authority (RTA) or a State Transport Authority (RTA) or a State Transport Commission; it is an offence to use a commercial transport which the on a public place. The route or area of operation, the manner in which the vehicle lists be used (State Catrings, contractearrings, private or public carrier etc.), the carrier etc.), the carrier etc.). etc.), the carrying capacity, schedules for trips etc. are indicated in the permit. dicensing Authorities

The R. T.A. S. T.A., of the Later-State Transport. Commission are the competent authorities for the grant of or countersigning of permits. Each State has a State Transport Authority and as may Regional Transport

Authorities as number of regions into which the State is divided to the administration of Motor Vehicle Act. According to Motor Vehicle Act the area specified on the region of R.T.A. shall in no case be less than one entire district a whole area of a presidency town. The size of the region varies from State to State.

The functions of the S.T.A. cover co-ordination and regulations of the activities and policies of the Regional Transport Authorities ; settling dispute and deciding matters on which differences of opinion may arise between R.T.As and performing duties of R.T.A. where no such Authority exists. It is also competent to revise the orders of R. T. As in certain elecuminances. The State Transport Authority is bound to carry out directions issued by the State Government in matters of interest in development of motor transport co-ordination of Road-Rail Transport, preventing deterioration of roads etc.

The S.T. As and R.T. A.s are expected to ensure that ransport vehicles sare plied so as to serve the interest of the public and not merely that of the permit holders.

. . 4.

Inter-State Transport Commission

The Inter-State Transport Commission was set up under section 63-A of the Motor Vehicles Act, 1939, In March 1958, for developing co-ordinating and regulating the operation of motor vehicles in inter-State regions or area. At present, the Commission consists of a Chairman and three other members (all part-time). The major items of work, on wolch the Commission is at present engaged, are as follows :-

(i) to bring about multi-lateral and zonal agreements between the State, for movement of public carriers on inter-State routes.

i(ii) to bring about aniformity in the permissible laden weight for transport vehicles on National and State Highways. The Commission, has taken up with the State Governments and Union Territories where the laden weight has been placed below 33,000 lbs., due to weak bridges, culverts, roads etc., the questions of carrying out necessary, improvements in the condition of roads and bridges so that the limits nfladen weight could be fixed at a uniform level of 33,000 lbs. (15 tons approximately).

(iii) to bring about uniformity in the payments of taxes in respect of temparary permits, which is considered to be one of the bottle neck. to the flow of long distance traffic on inter-State route. The Commission had requested the State Government and Union Administra-tions to accept payment of taxes in respect of such permits either on

weekly or fortnightly basis instead of quarterly basis,

(iv) to ensure free flow of traffic on the inter-State routes, the Commission is persuading the State Governments/Union Administrations, 3-17- 5 to improve the missing links and remove other bottlenecks:on National and State highways.

ROAD TRANSFORT REORGANISATION COMMITTEE, 1958

The Government of India appointed in 1958 the Road fraisport Reorganization Committee, under the Chairmanship of Shri M. R. Masani, to carduct a comprehensive enquiry regarding the existing mechanics for the administration of road transport, and to make recommendations for the regramisation of the Transport Administration in the States and other cognate matters.

The main recommendations of Mesani Committee related to the upgrading of weight limits for vehicles on roads, the encouragement of truck trailer combination the grant of ill-State visidity to public carrier permits at the option of the applicants, liberal issue of permits for intra-state and inter-State operation, the creation of full-fleged Transport Ministries, and appointment of full-fleged Transport Ministries, and appointment of full-fleged Transport States, the creation of Development Wiogsin the Transport Commissioners in all States, the creation of Development Wiogsin the Transport Commissioners.

TABLE No. G(1) -"

GROWTHOF MOTOR VEHICLES ON THE ROAD IN INDIA 1952-1972

			. .		- marine
(As on 31s)	Motor Cycles andauto rickshaw	car and	Taxis !	Buses	
(1)	(2)	(3)	(4)	(5)	* 20 "
1962 .	. 116,533	314,024	25,620	59,560	Ty 19
1963 .	. 139,767	347,603	27,793	62,560	
1964	. 167,793	338,906	29,541	66,513	
1965 .	. 201,926	395,293	31,762	70,470	
1966 -	. 241,701	120,096	35,725	73.175	
1967 .	. 235,89	2 440,629	38.321	7G,033	
1968 .	. 345,82	6 480,362	41,990	82,729	
1969* .	419.45	1 526,787	51,355	87,436	
70* .	. 603,16	1 537,939	59,737	91.582	
1971 (P)	612,6	8 622,039	60.446	93,907	
·1972 (P)	. 693,27	2 672,911	G6,954	99,394	

^{*} Notor Vehicles, axed tax exempted and emporarily withdrawn from use.

⁽P) Provisional.

TABLE No. 6 (1)-Contd.

	Trucks	Others	Total	
《面影》	(6)	(7)	(8)	
1962	189,006	44,343	749,176	
1963	215,408	54,297	847,428	
1964	224,181	59,030	905,964	
1965	241,840	64,162	1,006,447	
1966	258,977	69,369	10,99,043	
1967	266,190	80,347	1,190,912	
1968	284,836	95,609	1,332,352	
1969*	303,524	99,738	1,488,271	
1970*	322,292	113,361	1,658,122	
1971(P)	342,577	193,668	1,865,315	
1972(P)	363,889	143 461	2,044,881	

Revised.
(P) Provision

Table No 6(2)

TOTAL NUMBER OF DIFFERENT MOTOR VEHICLES* ON ROAD AS ON 31ST MARCH 1969 1970 1971 AND 1972-(STATEWISE) .

						,				
Class of Vehic	les					Andhra Pradesh	Assam	Bihar		
(1)						(2)	(3)	(4)		
Motor Cycles	- 5					· · · · · · · · · · · · · · · · · · ·				
1969.						27097	3131	17170		
1970						33502	3935	19933		
1971						15182	5462	22436		
1972.	•	•	•	•		(48672)	(6027)	(25059)		
Auto ricksha	11.5									
1969.						417	61	138		
1970.						155	38	169		
1971.						922	78	155		
1972.	•	•	•	•		(1170)	(87)	(164)		
Jeeps								+ ,		
1969.						466	4346	6527		
1970.		•				5543	4159	7045		
1971.		•			•	7254	4882	7319		
1972.	•	•	•			(8940)	(5148)	(7715)		
Private Mo	tor C	lars						, ,		
1969.	-					22914	10353	15940		
1970.		•		•		25158	10386	17741		
1971.		•			•	29451	11525	* 18249		
1972.	•	•		٠	•	(32700)	(12121)	(19403)		
Teris	د									
1969.			-	•		1938	668	2192		
1970.	•	•	•	•		3784	741	2877		
1971.	•	•	•		-	2656	828	3099		
1972.	•	•	•	•	•	(3000)	(908)	(3417)		

1			170	314 21		Conld .	Jami Haryana Kas	nu and hmir
Class of Vehic	cs						(6)	(7)
(1)						(5)		
Motor Cycles 1969. 1970 1971.					•	32 114 10012 19934 61589	4966 6041 (7116) (8000)	(1780) (1880) (1980) (2080)
(Autorickshaws 1969 1970 (1971	•	•			:	5886 6537 8304 9601	702 616 (616) (616)	(45) (49) (53) (57)
1972 Jeeps 1969 1970 1971 1972	•	•	•		•	6659 7427 7985 8827	698 909 (1100) (1300)	(570) (625) (680) (735)
Private Mo 1969 1970 1971	:	ars			•	23582 25583 28029 30286	(2228)	(2040) (2225) (2410) (2595)
1972 Taxis 1969 1970 1971	•	•	•	•	•	145 144 166 186	7 [31] 9 (131)	(290 (325) (360) (395

TABLE No. 6(2)-Contd.

(1)						(2)	(3)	(4)
Other Pabli	c Serv	ice 1	Vehic	les			3.2	
1969.						6673	2353	3894
1970.						6469	2743	4196
1971.						7065	2659	4522:
1972.					•	(7100)	(2700)	(4600)
Goods Vehi	cles							
1969.						17637	11549	^ 14390
1970.						17659	11047	16572
1971.						19703	14679	15237
1972.					•	(20700)	16244	(17160)
Lisc. Vehi	cles					•		
1969.						9115	5251	4.3313
1970.						11545	6650	4486
1971						13338	7240	4782
1972	•	•	•	•	•	(15500)	(8235)	(501G)
TOTAL						•		7 1951 10
1969.	•					00450	2500	63564
1970.	•	•	٠	•	•	90459	37692	71919
	•	•	•	•	•	104115	42719	
.1971	•	•	•	•	•	125871	47353	76709
1972	•	. •	•	. *	•	(136882)	(51470)	(80544)

TABLE No. 6(2)-Conid.

Mark Control	·,	•	·····	(5)	(6)	(7)
Other Public Service Y	/chi	cles		·····		
1969 A. Marie				4880	1190	(1020)
1970	, .			5322	990	(1060)
· [1971年] [25]				5563	(990)	(1100)
1972				6362	(990)	(1140)
Goods Vehicles					•== .,	(,,,,,,
Ge 1969			_	26229	4981	(4488)
1970			Ţ	28707	4980	(4740)
1971	·		•	32414	(4980)	(5000)
1972			·	35462	(4980)	(5260)
Misc. Vehicles			•	45.42	(1000)	(5200)
1969				4444	0.407	(100)
1970	•	•	٠	9839	2427	(190)
1971	7	•	•	11678	3679	(195)
1972	•	•	•	14069	(4900)	(200)
	•	•	•	17092	(5000)	(205)
Torau						
7 1969	_			110945	17139	(10415)
1970		•	•	126713	19380	(11099)
14 1971	•	•	•	147967	(22061)	(11783)
1972	•	•	•	171083	(23439)	
	•	•	•	111002	(23400)	(12467)

TABLE No. 6(2)-Contd.

Class of Vehicles	Nagaland	Orissa	Punjab	Rajasthan	
Section in the second	(12)	(13)	(14)	(15)	
Motor Cycles					
1969	44	6131	(13466)	14910	
1970	238	7545	(14409)	(15324)	
1971	584	10195	(15352)	(15798)	
1972	398	11645(D)	(16295)	(16152)	
(3, 5, W)			••••	(10.02)	
Auto-rickshaws					
1969			(220)	(K)	
1970		34	(235)	(K)	
1971		. 112	(250)	(K)	
Fu 1972	٠ مسو	· 114(D)	(265)	(K)	
				-	
Icens,		the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			
1969:	651	4966	(1192)	@	
1970	686		(1273)	(1950)	
1971	1571	4946	(1354)	(2100)	
1972	933	-4965(D)	(1435)	(2250)	
Delaited we have					
Private Motor	251	3674	(7490)	* "	
1969	405	4412	(7430)	20108	
31971	323	4109	(8530)	(25505) (26902)	
1972	310	5677(D)	(9050)	(30299)	
States and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta			A. 12020	(30233)	
Taxis	. `		多汉称。,	~ {\dagger{\dagger}{\dagger}\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\d	
1969	9	. 15)1()	(500)	1266	
1970	*	1906	(572)	(1388)	
1971	. 21	1274	(644)	(1510)	
1972'	11:,	1099(D)	(716)""	(1632)	

TABLE No. 6(2)—Conid.

是 以 。这种是包含	(12)	(13)	(14)	(15)
Other Paties of Paties	~ ~~~			
1969	5			
1970		1617	(2500)	7173
	90	1615	(2624)	(7497)
\$ 1971 P. A. C	70	1861	(2748)	(7821)
1972	140	2181(D)	(2780)	(7900)
複點 없이 시계하다 내가			•	
Goods Vehicles	•			
\$1969 A \$ \$ \$ \$ \$	445	8348	(8020)	17316
1970	592	8948 -	(8033)	(16631)
7 (1971)	1424	8311	(9246)	(19946)
1972	443	8727(D)	(9859)	(21261)
	• • •	- 1 (/	(/	(,
Misc. Vehicles				
1969		2063	(2636)	10754
1970 - 27-14		2353	(2814)	(12077)
程。 1971 、1977年,	81	2892	(2992)	(13400)
1972 : 52. 53	13	2695(D)	(3170)	14723)
(<u>16.6 (b., 1</u> 6.16 (c.)	••	2002(3)	(*****)	,.,
A Company of the second		•		
A 0121			•	
多 1969 [15] [15]	1400	28310	(36024)	71327
1,1970	2020	32001	(37970),	(78372)
30.19 71) 27 从7 一十二 (4074	33700	(41116),	(87417)
1972	2248	37103(D)	(43570).	94217

TABLE No. 6(2)-Cold.

Clay of Vehicles	A. & N. Islands	Chandigarh	Dellai	Dadra & Nayar Haveli
Commence of	(19)	(20) -	(21)	(22)
Motor Cycles		artinate de la companya de la companya de la companya de la companya de la companya de la companya de la compa		
1969	229	2599	59805	111
[[[]] 1970] [[] [[] [] [] [[] [] [] [] [] [] [] []	277	(3560)	75518	226
(1911/c) (3-1 a)	371	4518	93253	22:
17. 1972	403	(5100)	114365	(220)
Autorickahana A				
ड [े] ं 4969		355	8214	
1970		(440)	9354	
Barra Sala	*****	522	10221	
1912		(600)	11323	
Tempatia (1)				
1969	90	63	2431	ĭ
1970	105	(104)	2493	
197165	112	139	@	2.
1972	112	(170)	æ e	(23)
Private Meter Care	,		4,5	****
1969	59	903	44041	39
3 4 1970	59	(1289)	47033	74
Section (Charles)	2. 76	1457	55459	84
76 1999 A. The E.	75	(1600)	63158	(115)
	,	11000		(1747)
Taring of the first	·			
1909 1800	29	50	3419	<u> dere equ</u>
可能1970时,这个交流	. 30	(52)	3355	\$9
	30	54	2412	
到了 这种的 是是一个人。	. 32	(36)	4272	(3)

TABLE No 6(2)-Contd

(1)				(19)	(20)	(21)	(22)
OtherPubli	c Set	vice'	Chicles	1			
1969				29	40	2557	
1970	٠	•		28	(108)	2745	
	•	•	•	30	176	3048	
1971	•	•	•	31	(200)	3326	
1972	•	•	•	31	(2007)		
Goods Vel	iicle	5					0.0
1969				221	91	9551	80
1970		-		274	(73)	11038	133
1971	•	-	-	288	51	13620	32
1972	•	•	•	302	(51)	15743	(32)
	•	•	•		• •		
Miscellan	cous	Vchi	cles.			-40	
1969			•	96	65	510	14
1970			•	91	(115)	548	
1971				119	166		15
1975		•	•	129	(216)		(25)
To	TAL :			7.0	44.50		235
196	9.			753	4174	1 29528	
197		, ,		865	(5733)	152282	463
197				1026	7083	180494	381
197				1084	(8293)	212187	(418)
	_						

TABLE No 6(2)-Contd

Class of	Velu	cles				Goa, Daman & Diu	Himachal Pradesh	Manipur
	(1)					(23)	(24)	(25)
fotor Cycle	's						*	
1969		,				3057	538	311
1970						3281	(642)	365
1971					-	3934	(746)	377
1972	•					(5756)		397
Auto-ricksha	2/7							
1969						49	2	
1970						49	(2)	^
1971						31	(2)	
1972	•		٠			(38)	(2)	
Jeeps							٠	
1969						ത	514	799
1970						<u></u>	(671)	93
1971						ĕ	(628)	920
1972	•				•	@@@@	(685)	93
Private Mo	tor C	ars						
1969				_	_	3384	172	19
1970				•	•	3584	184	20
1971				·	•	3842	(196)	23
1972	•	•	•	•		(5654)		23
1969						s	150	
1970						Š	(150)	
1971						· s	~(150)	
1972						(800)	105	

TABLE No. 6(2)-Co-1

	Class b	l Veli	icles				Gon, Druma 1 & Dm	Hunachal Pradesh	Manspur
	(1)			····		·········	(23)	(24)	(25)
Ot	her Publ	ic Ser	Vict'	Vehic	·les				
	1069						1313	580	204
•	1970	_			•	•	1366	(640)	196
	1971	-	•	•	•	•	1391	(700)	230
	1972			•	•	•	(872)	816	242
Go	ods Vehi	eles							
	1969	•				٠.	3530	1710	697
Ł	1970.						3752	(1780)	686
	1971	4	,				4068	(1850)	795
	1972	•					(5914)	1798	807
١fı	se Velue	-les							
	1969							280	198
	1970		•	•	•	•		(320)	184
	1971	•	•	r	•	•		(360)	199
	1972		•	:	:		(15)	(400)	200
	POTAL								
٠.	1969						11000	3946	2408
,	1970	•		•	٠	•	11353	(4389)	2566
	1971	۲.	•	•	•	•	12032		₹ 2752
	1972	•	•	•		٠,	13319	(4632) (4864)	2816
	4012	•	•	•	•	•	(18149)	(4804)	2010

[@] Included under Motor Cars

L Included under other public service (D) Figures as on 31-12-1971, vehicles

⁽⁵⁾ et in brickets are estimated

TABLE No 6 (2)-Cord

Class of Vel	hicles	•			Per	dicherry	Tripura	Total
	(1)					(25)	(27)	(28)
Motor Cycle	8							
1969						1176	292	392823
1970						1378	353	472246
1971						(1580)	418	575893
1972		4		•		(1780)	- 452	656390
Auto-rickshar	N 5							
1969			-			15	2	26608
1970						16	4	30915
1971			•	•	٠	(17)	2	36765
1972	•	٠	-	•	•	(18)	4	4188
Jeep*								
1969					•	94	967	68823
1970	•				. >	- 101	1051	7807
1971						(108)	1133	82584
1972	•	•	•	•		(115)	124B	87559
Private Mo	tor C	ars						
1969						1035	214	45796
1970		•	•	•	•	1244	228	48991
1971	•	•	•	٠.	•	(1433)	259	53947
1972	•	•	•	•	•	(1622)	324	58537
Taxis								
1969	•		•	•	•	33	164	5135
1970	•	•	•	•	-	38	195	5973
1971		•	•	•		(43)	231	6044
1972	•	•	•	٠	•	(48)	298	6695

TAPLE No. 612) __ Cert

Clari	of Vel	iicles				Pondicherry	Tripur	- Total
(1)	-	******	*****			(25)	(27)	(28)
OtherPubl	11 54.		y., 1	•		and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t		
1964		· ice	renze	164				
1970	•		*	•		97	253	87436
1971		*	•		•	99	255	91582
1972	à.	•		•	4	(101)	269	93907
	•				•	(103)	269	99394
Goods Yel	cles							
1353	****							000534
1970	•	•	•	•	•	231	1086	303521
1971	•	•	•	•	-	252	1168	322292
1972	٠	•	•	•	•	(233)	1266	342577
	*	•	•			(234)	1790	* 363889
Muse, Vehr	clix							
1584						44.0	369	99758
1970	•	•	•	•		418		113361
1971	•	*		*	•	169	371	
1972	•	•	•	•	•	(520)	411	133668
1		•	•	•		(570)	463	143451
TOTAL								
1969						·		
1970	4	•	•			3119	3547	1480271
1971		•				3577	3628	1650122
1972	•					(4035)	3989	1863315
1317						(1490)		2044881

^{*}Figures relate to schieles taxed, taxexempted and temporarily withdrawn

⁽K) Included in Motor Cycles.

PABLE No. 6(3)
Number of Stage Carriages on Road by Scating Capacity

State Union Territory	Data as U		6-40 icats		
(1)	(2)	(3)	(4)		<u></u>
Andhra Prade-h Bihar Gujarat Jammu & Kashmir Kerala Madhya Pradesh Maharashtra Karnataka Orissa TamiiNadu A. & N. Islands		160 · 76 · 30 · 97 · 1,482 · 30 · 129 · 366 · 79 · 57	1,579 1,034 161 194 3 494 1,947 1,044 1,630 255 1 641 40		- i
Dadra & Nagar H Tripura	avel: 30-6-71	129	60		
Total for the abo States and 2 U Territories		2,640 5•50	13,079 27 27	•	•

TABLE No. 6(3)-Conclid.

State/Union 1 Territory	More than 40 Seats	Total
Carlos Carlos	(5)	(6)
Andhra Pradesh	5,326	7,065
Bihar	3,018	4,128
Gujarat	5,817	6,008
Jammu & Kashmir	40	331
Kerala N	690	5,666
Madhya Pradesh	2,414	4,391
Maharashtra	817	1,990
Karnataka	3,571	5,567
Orissa .	1,84	21,817
Tamil Nadu	8,592	10,290
A. & N. Islands	40	85
Dadra & Nagar Haveli		_
Tripura	a 80	. 269

Table No. 6(4)
NUMBER OF PRIVATE AND PUBLIC CARRIER GOODS VEHICLES
ON ROAD BY CARRYING CAPACITY

State/Union		Date as		Private	Carriers		
Territory		on ·	Relow 0 8 tonnes	0 8.3 0 tonnes	3 1-5 0 tonnes	Above 5 0 tonnes	Total
(1)		(2)	(3)	(4)	(5)	(6)	(7)
Andhra Pradesh		31-3-71	434	194	350	3,216	4,194
Gujarat		31-12-71	370	5,396	1,644	3,551	1,0961
Kerala		30-6-70	434	389	554	704	2,081
Madhya Pradesh		31-12-68	18	572	685	1,288	2,563
Maharaslitra		31-12-70	2,159	3,365	6,494	5,334	1,7352
Myore .		31-12-69	578	477	1,251	1,847	4,153
Orissa . '		31-12-71	207	552	943	893	2,595
lamil Nadu .		30-6-72	454	154	1,241	3,601	3,450
A. & N. Islands	١	\$1-12-72	· _	12	13	261	286
Dadri & Nagar Have	el,	30-6-71			•		
Tripura	•	31-12-71	_	\$5	235	301	591
Total for the above 8 States and 2 Un T restores	ior	1	4,654	1,1166	1,3410	2,0996	5,0226
Percentage to Total			9-3	22 2	26 7	41.8	100,00

TANKY NO. DETY-FORES

*			Pr	ablic (ar	21717	
State/Union Temitory	Date as on	Below 0.8 tonnes	O 8-5 (0 3 1-5 tonner	0 Above 5 0 toupes	
(1)	(2)	(8)	(£)	(10)	(11,	(12)
Andher Pradesta	31-3-71	55	877	4,261	1,0210	1,5509
Gujarat .	31-12-71	646	1,660	3,152	1,521€	2,3704
derick	10-6-70	71	999	2,538	6,624	1,0172
Mathya Pradesh	31-12-58	30	562	5,276	5,496	1,1364
Raharasi tra	31-12-70	862	3,262	1,3694	2,2551	4,0359
Mosore	31-12-69	1,900	1,605	2,953	7,858	1,1316
Orina	31-12-71	32	463	3,255	2,382	6,132
Tarall Nadu	30-6-72	1,803	40	1,676	•	1,5136
A. & N. Islands	31-12-72		3	,	96	99
Dadra & Nagar Havels	30-6-71				19	19
Tripura	A1-12-71	40	309	557	108	994
Fotal for the above B States and Union Territories.		5,444	97,29	37,442	85,199	13,7814
recutige to Potal	f	4.0	7+0	27.2	8-13	100 00

State/Union		Date as		otal (Pri	vate and	Public)	77 1. 17	٠
Territory		on	Relow 0.B topnes	0.8-3-(3-1-5- tonne	O Above 3 5 0 tonnes	J 1750	制作
(1)		(2)	(3)	(4)	(5)	(6)	, (7) '2
Andhra Pradesh	`	31-3-71	489	1,071	4,711	13,432	19,7	0.1
Bihor		30-6-71	258	1,039	4,407	10,598	16,3	67
Guiarat		31-12-71	1,016	7,056	4,796	21,797.	34,6	65
Jawnu & Kashmir	4	30-6-71	4	779	3	•	7	ВĠ
Rerala	•	30-6-70	505	1,328	3,092	7,328	12,2	53
Madhya Pradesh		31-12-68	48	1,134	5,961	6,784	13.9	17
Naharashtra	٠	31-12-70	3,021	6,627	20,188	27,885	57,72	21
Karnataka		31-12-69	2,478	2,082	4,204	9,705	18,46	49
Orissa .	•	31-12-71	239	1,015	4,198	3,275	8.72	27
Tamil Nadu .	•	30-G-72	2,262	- 203	2,917	15,204	20,58	6
A. & N. Islands		31-12-72	_	15	13	357	38	5
Dadra & Navar Ha	reJi	30-6-71		-		19	3.1	9
Tripura .	•	31-12-7.1	40	364	772	409	1,58	5
Total for the ab 11 States and 2 Territories,	ove Un	ion .	10,360	22,773	55,262	1,16793	20,518	8
Percentage to Total	. •	Ł	5-1	11-1	26.9	56-9	100-0	00

MO OF DRIVING LICENCES (NEWLY ISSUED AND RENEWED) DURING

THE YEARS ENDING SIST MARCH 1970, 1971, AND 1972 Authorisa-*Total Professional tion Drive public State Union Territory service vehicles (4)(3) (2)34.90 74.19 Andhra Pradesh 35.03 83.29 1970 ••• 1971 ••• 1972 0.04 0.28 0.95 ... ••• 1970 1971 ... 1972 . 2.15 18.71 2.79 Bihar 34.68 18.22 ... 37.86 1970 4.95 14.7 48.85 6.07 Gujarat . 76.43 43.47 7.50 75.09 46.50 1970 n3.78 1971 1972 2.93 20.75 ... Haryana .: 23.68 *** 1970 1971 1972 ••• ... 10-25 39·50 37·46 11.56 Karala: 55.25 10-6

52.74

56.25

35.41

1970 1

1971

TABLE No. 6(3)-Gontd.

Goa, Daman & Din: 1969—1970 1970—1971 1971—1972 1970—1971 1970—1971 1970—1971 1970—1971 1970—1971 1970—1971 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—1972 1971—19									
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47	otal 1971-72(fo	rrepo	reing	States	JU. T	's) .	627.52	388.05	52 51
	*Toral								

^{*}Total number of driving licences includes professioonl as well as owners. Licences.

Neg. Negligable. ... Not available.

Norg: Authorization to drive public service vehicles is effected generally by an endorsement of professional licences.

Tamer No. 6/65 Distribution of operators according to fact size as on 31st March, 1979, 1971 and 1972

gtate/Union Te	terior				O	Oprators owning				
,, onton 10		,			One Vehicle	ž to 5 Vehicles	6 to 10 Vehicles	11 to 20 Vehicles		
(1)					(2)	(3)	(4)	/(5)		
Andhra Prade	slı .					 				
1970 . 1971 . 1972 .	:	:		:	16,785	2,116	367	270 • ***		
Assam :	•	•		•	••	•••	***	• •		
1978* 1971 . 1972 .	:	•	•		18,356	280	122.	57 ,		
Bihar :	•	•	•			•	• •	•••		
1970 . 1971 . 1972 .	•	:	:		19,4÷7 21,567	2343 2551	448 461	163 180		
Gujarat :										
1970 . 1971 . 1972 .	:	:		:	19,346 22,232 24,281	1,533 1,767 1,938	49 66 64	34 29 27		
Haryana:										
1970 * 1971 .	•		•		3,385	1,029	69	41		
1972.	:	:	:	:	••	•••	***	•••		
"berala:						•••				
1978*£ 1971 .	•	•			354	399	72	31		
1971 .	:	:	:	:	••	***				

TABLE No. 6(6)-Cont 1.

State/Union		itory			21 to 50 Vehicles	51 to 100 Vehicles	More than 100 Vehicles	I otal
(1)				(6)	(7)	(8)	(9)
Andhra Prade	esh :				·	*	***************************************	
1970 . '					14			19,552
1971			•			•••	•••	
1972:	. •	•	•	•	***	•	•	••
Assam:	•					*		
	4				3	1		18,819
1970*. 1971:	* •	•	•	٠	3	1	•••	10,013
1972 :	:	:	:	:	:	••	•••	:
Bihar:								
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1971:	:	•	•	•	90	·*6	5 5	22,444 24,812
1972 .	;	:	·	•	3 <u>2</u> 44	6 4	5	24,812
Gujarat :								
						6	10	20 097
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1972 ;	:	:	:	•	20 22	10 8	íò	20,997 24,134 26,350
77 1	. >				•	•		
eraryana ;	š.					_		4,536
1970*.	•		•	•	8	3	1	4,500
1971 . 1972 .	•	•	•	•	***	• •	***	•••
1972 .	•	•	•	•	• •	•••	••	•
Kerala :								3
1970*£					15	3	1	₄ 87.5
1971 .			•		***	***	•••	•••
1972 .					• • •		•••	• •

TABLE \o 6(6)-Contd

(1)					(2)	(3)	(4)	(5)
Maharashtra								
1970					55451	3138	371	152
1971 - 1972 -			•		•••	***	•	
Madhya Prad	esh							
1970 .					13164	762	204	42
1971 1972					16296	1165	160	51
Karnataka:						•		
1970 .					11318	2091	174	61
1971 - 1972 -		•	:		11645 12531	1680 1662	157 165 .	48 54
Orissa :								
1970					11845	1492	175	28
1971 1972				:	10298 16527	1068 1595	73 203	35 44
Rajasthan								
1970*					13230	493	38	14
1971 1972	•	•	•					• •
	•	•		•	•			
amil \ada	•							
1970 . 1971 .	•			•	19053	2317	267	61 44
1972	:	:	:	:	522 526	559 627	197 227	41
Prade:	-1					-4.		
1970	*** -				23676	400	39	18
1371 .	•	:	:	•	23076	405	39	
[*] 1972 .	•	•	•	•	***		•	•
& N. Isl	ands						•	1
1970				-	400	31	3	
1971 - 1972 -	•	•	•	•		•	_	•
1014 -	•	•	•	•	•	•	•	•

TABLE No. 6(6)-Gentd

(1)				(6)	(7)	(8)	9)
Maharathtra:							-
1970 . 1971 :				64	12	5	5919 3
1972		:		•	•••		•
Madhya Pradesi	, .		•	••	••	• •	• •
1970 .	٠.			13	1	2	11193
1971 1972	•	÷	:	1.3	*	2	
•	•	•		19	2	1	17691
Karnataka							
1970 . 1971				29	5 9	1	13679
1972	:	•	•	18 24	9 4	1 3	13558 14453
Orissa :	•	•	•	4.4	4	3	11130
1970							13568
1971.	:	•	:	21	6 4	1 5	11485
1972	•	•	•	25	8	5 3	18465
Ryjastliah :							
1970* 1971						1	13776
1972	•	•	•	•			
TamilNadu:	•	•	•				
19704						_	
1971	•	•	•	33	9	3 2 4	21743 1345
1972	:	•	•	17 14	3	4	1442
Uttar Pradesli :		3 *	1	1.4	•	•	
1970	,			2	_	å	24110
1971 1972	:	÷	•	-2			
	•	•			•	•	• •
A. & N. Islands	:						107
1970 1971		4			1	2	437
1972	٠.	•	•	···	•	•••	:.
-	•	•	•	•••	• •	•	

TABLE NO 6(6)_Cont

(1)					(2)	(3)	(1)	(5)
Chandigarh :								2 3 4
1970 .		_	_	_	549	8	1	
1971 .	:	:	:	:	31.	•	-	***
1972 .	•			•			•	٠
Dadra & Naga	ır Hav	el:						
1970*.					124	6		۲
1971 .							•••	٠.
1972 .	•	•	•	•			***	***
Goa, Daman	& D:	u						*
1970 .					1893	336	24	, 135
1971.		•			• • • •			
1972 .	•	•		•	•	•	***	•••
Manipur :								ζ.
1970,			. *		705	60	5	-
1971.						••	-	
1972.	•	•	•	•	••	•••	<i>'</i> :	
Pondicherry	:							, į
1970 .					285	30		
1971	·	:	:	•	278	30 38		
1972 .		•	•		•••	••	::	***
						··········		
TOTAL	:							
4970 .	•	•	•		198601	14435	1806	763
1971 .	•	•	•	•	52777	5775	784	271
, 397 2 •	•	•	•	•	91788	9538	1280	407

As on 31-3-1969. £ For buses only.

TABLE No. 6(6)_contd.

(1)				(₆)	(7)	(8)	(9)
Chandigarh	······································	*************						
1970 .						1		559
1971 .				•	• • • •	•		200
1972 .	•	•	•	•	•	.,.	• • •	
Dadra & Nag	ar Ha	veli:						
1970 .								130
1971.				•	***	p		130
1972 .	•	•	•	•	•••	•	••	,
Goa, Daman	a D	m:						
1970 .					15	7		2288
1971 .		•			••	•		
1972 .	•	•	•	•	•••	•••	• • •	•
Manipur:								
1970 .							1	771
1971 .				•		-		271
1972 .		•	•	•	• • •	•••	• •	
Pondicherry	•					••		•
1970 .	•							315
1971	:			•				516
1972 .					<u></u>	• • •	_	,10
						••		
TOTAL :								
1970			•		207	53	27	215892
1971		•	•	•	69	24	22	59722
1972 .	•	•	•	•	148	29	22 26	103216

[@]For the private operators only.

^{**}Included under Column 5.

TABLE No. 6(7)

Remilar Permite

TUMBER OF MOTOR VEHICLES PLYING ON INTER STATE ROUTES WITH REGULAR/TEMPORARY PERMITS ISSUED BY EACH STATE

(As on 1st April, 1970, 1971 and 1972)

State/Union Territory	100	gular P	ermits	Temporary Permits			
		Go	ods Veh		Goods Vehicles		
	Gir	Stage riages (Public Lattiers C	Private Jarriers	Stage Carriages	Public Private Carriers	
(1)		(2)	(3)	(4)	(5)	(6) (7)	
Andlira Pradesh	1970	_	4,724	178		49	
,* ·	1971		4.704	147		46	
+	1972	•••	***	•••	***		
Bihar	1970	168	305	199		2,292 32	
•	1971	114	413	162		1,897 22	
	1972			***			
Gujarat	1970		951	44	4	914	
	1971		1.426	43	7	258	
	1972	***	1,686	52	4	430 51	
_k Himachal	1970	2	40	22	128	680 3 59	
aradesh .	1971	•••	***		***	and the second	
*	1972	***	•••	***	•••		
Kerala	1970	152	1.544	68	.28	176	
	1971		,				
	1972			•••	***	A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Maharashtra .	1970	183		-		20	
orangements .	1970	103	5,412	245	80	1 975	
200 m	1972	300	7,892	178	51	1,170 10	

TABLE No. 6(7)-Contd.

		TABLE No. 6(7)—Confd.											
1	and the second second	(2)	(3)	(1)	(5)	(6)	(7)						
		228	1,951	162									
Karnataka •	1970		5,311	195									
, {	1971		184	270	227	1,533	10						
	1972*	134	104			15							
M 1	1970	4	505			15							
Nagaland •	1971	4	505										
•	1972			**	٠	•							
	_		20	16	98	1,722	674						
Orisea	1970	G		. 1	169	3,256	104						
	1971	112	1,006	10	8	1,492	23						
	1972	67	750										
	1970	326	4,015	161		• •							
Tamil Nadu •	1971	360	1,186	183		•							
	1972			•••	•••	• •	•						
	107-	•••	•••		•••								
A. & N. Islands	1970	•	***	***									
	1971	••	••	**			•••						
	1972	•	***	• •	***	•••							
	1970		•••		• •	• •	2						
Chandigarh .	1971	•••	19	2	15	2							
	1972			•••	***	• •	***						
	1972	• •		205	7	969	1,167						
Delhi	1970	285	7,057			•••	••						
	1971	• •	•••	•••	•••	•••	•••						
	1972	•	***	•••	• •	•••							
	1970		•••			• •							
Haryana • •	1971	•••			••	•••	.38						
	1972*		939	669	12	58	~)0						
	*						_						
Dadra & Nagar	1970					***	•••						
Havely	1971	***	• •	••	•••	•••	•••						
	1972		•	• •	***								

TABLE No. 6(7)-Gentd.

(1)	dispersional de la company de la company de la company de la company de la company de la company de la company	(2)	(3)	(4)	(5)	(6)	(7)
Goa, Daman &	1970	40	358	20		4,01B	475
Diu	1971	41	492	21	24	f, 133	+486
4	1972	•••	•••	•••	•••	•••	روبه)وبه
Pondicherry .	1970	63	213	111			
	1971	66	191	104	_	٠	بسوا
	1972	•••	•••	•••	•••	***	•
Total (for report Union farritor	ing States iesj—1970	1,457	30,095	1,432	345	11,226	2,422
Total (for report Union Territorie	ing States/	925	18,283	B61	213	5 9,607	615
Total (for report Union Territor	tingStates/ ics)—1972	935	11,361	1,179	30	2 4,603	82

^{*}As on 30-6-1972

[@]At on 30-9-1972.

TABLE. No. 6(8)*

TYPE OF COMMODITIES MOVED ON ARTERIAL ROADS IN THE COUNTRY AND THEIR AVERAGE LEAD (1963)

الرواه والانوام والرابات

Comm	adity	•				Quantity in tonnes	Yonne kms. performed	Average lead in kms.
海南南北	(1)					(2)	(3)	(4)
Pruitsand vegetable	3	•	•	•	·:	75,653	22,713,366	300
Building materials					, ~	67,797	10,181,755	150
Foodgrains .						63,434	14,461,171	228
Provisions .						33,944	15,867,901	467
Iron and steel .						33,328	13,739,406	412
Mineraloils .						32,942	8,388,883	255
Coal						25,854	6,082,291	255
Wood						25,247	5,699,247	226
Textiles						25,733	16,279,583	633
Sugar						19,960	5,362,276	269
Machinery				٠			1,126,931	754
Medicine and chem	icals		•			12,707	6,361,504	501
Vegetable oils	•	•	•	•	•	7,657 3	354,492	438
Fodder						1,347	1,457,060	198
Cotton						6,691	3,910,257	584
Oilseeds .		٠.				6,547	1,837,554	.281
Cement	٠. ٠	•	. • .	. •			1,568,860	260
Others	ا أَيْ			:,		1 77,9 89 8	35,330,752	479
		3	To	taÍ:)	643,637	233,723,309	363

^{*}Result of woods traffic survey 1963 on 16 long distance trank routes.

TABLE No. 6(9)*

DISTRIBUTION OF TRIPS MADE BY GOODS VEHICLES ON ARTERIAL ROADS ACCORDING TO LENGTH OF HAULAGE (1953)

Length of ha	tula	ge k	lome	res	 		r	ercentage
	(1)			 ··			(2)
Upto 50		•		•	•	•	•	6.4
Mor than 50 upto 100 .								11.4
Morethan 100 upto 200 .								25-6
More than 200 upto 300								17.9
Morethan 300 upto 500 .	,							19.9
More than 500 upto 700 .								8.8
More than 700 upto 1,000							`	3.4
More than 1,000 upto 1,50	0							8.9
1,500and above		•			•	;		2.7.
*					T	otal		100.0

^{*}Results of goods traffic survey, 1963 on 16 long distance trunk routes.

SECTION 7: TAXATION ON MOTOR TRANSPORT

TAXATION ON MOTOR TRANSPORT

Motor Transport in India is subject to taxation by the local bodies State Government as well as Central Government. Taxes are levied on the vehicles, passengers and goods carried. They are also levied on the figel, tyres and tubes and other accessories. The multiplicity of taxing authorities and the multiple-points of taxation were considered to impede the free flow of traffic and development of motor transport in the country. A number of Committee were appointed by the Government to investigate the matter and maderic commendations. Summaricas other ecommendations of the Study Group on Motor Vehicles taxation and of the Road Transport Taxation Enquiry Committee may be seen in this connection at Annexarcs V and VI.

TABLE No. 7(1) REVENUE FROM ROAD TRANSPORT IN INDIA

(In lakh Rupees)

					Centra	**			
Year e	ndi Man	ng ch	Motor V and Acc	chicles essories	Tyres as				
			Import duty	Excise	Import duty	Excise	Imp	ort Exci	
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	
965	-	•	2,603	1,938	19	2,573	2,892	13,662	23,67
1966	٠	•	2,692	2,077	18	2,885	2,943	16,616	27,23
957	•	•	2,240	2,270	26	3,628	1.835	19,579	29,57
968	•	•	2,106	2,180	63	3,789	320	23,945	32,40
969	-		1,880	2,416	57	4,898	264	27,348	36.86
270		•	1,331			5,186	344	30,910	40,33
971	-		1,426	•		5,490	436	34,928	45 181
972(P)	•	<u>.</u>		3,482	180	6,240	960	41,391	54,481

^{*}These figures are based or details published in State/Gentral Budgers since there is no regular reporting system in matters of supply of such data. Hence the estimates.

^{**}Revised figures.

[†]Estimate for Road Transport,

TABLE No. 7(1)-Corta.

(In lakh Rupers)

				<i></i>	States*								
Year ending 31st March				Motor Vehicles Taxes & Fees	Sales Taxon Motor Yuel	Passen- ger & Goods Tax	Total	Grand Total					
(1)	(1)		(9)	(10)	(11)	(12)	(13)						
1965		•	•	5,923	2,595	2,935	11,453	ەر 130					
1966				6,176	3,151	3,546	12,673	39,906					
1967	•	•		6,854	3,721	3,900	14,475	44,013					
1968	•	•		7,757	4,491	1,550	16,758	49,201					
1969	٠			8,559	1,926	5,016	18,574	55,4.4					
1970	•		•	8,796	5,737	5,777	20,310	60,647					
1971	•	•	•	10,767	6,821	6.048	23,136	68,317					
1972(P)		٠		11,357	7,203	7,269	26,829	80,312					

^{*}States include Union Territories

Source :-(i) Central and State Budgets.

⁽a) Ministry of Finance (Department of Revenue).

⁽P) Provisional.

Table No. 7 (2) Average nevenue per véhicle during 1970-71

(Figures in Rs.)

Ar. Other Goods Misc. ars Taxis public Vehice vehicles All scruce les Vehice les	5) (6) (7) (8) (9) (18)	35 325 10,503 1,839 63 1,829 47 286 932 762 132 367 52 343 1,703 1,423 133 453 52 372 317 103 453 453 453 52 372 1,723 103 454 103 454 103 454 103 454 103 454 103 454 103 267 539 757 757 567 563 174 166 577 174 65 174 166 253 174 166 253 174 166 253 174 166 253 174 166 253 174 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176 176
P.M. Jeeps Cars	(+) (5)	53 . 135 (6) (6) (7) (147 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)
Auto- riek- shaws	(3)	25.7 35.2 12.1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :
Motor Cycle-	(2)	2: 141 142 SESSESSES 146 17 114
State/ Union Territory	(0)	Andhra Pradesh Mann Mann Mann Mann Mann Mann Mann Man

&- Included in Taxis.

@- Included in Private Motor Cars.

TABLE No. 7(3)

RATES OF SALES TAX ON MOTOR SPIRIT AND HIGH SPEED DIESEL OIL AS ON 31-12-1970 STATEWISE

State/Union Territory				On moto	or spirit	On hig	
*				Rate of Sales tax	Date from which effective	Rate of sales tax	Date from which effective
(1)			•	(2)	(3)	(4)	(5)
Andhra Pradosh. Assam Blhar % Gujarat Haryana Jammu & Kashmir Himachail Pradosh Kerala Maharashtra Madhya Pradosh@ Mysore Nagaland Orissa Funjab Rajasthan Tamilyadu Uttar Pradosh WestBengal Andaman & Nicob Clihadigarh Delhi Goa, Daman & Dir Manipur Pondicherry Tripura	ar Ísla	·	••••••••••••••••	10 P/litre 15 P/litre 15 P/litre 15 P/litre 16 P/litre 10 P/litre 20 % 7 P/litre 21 P/litre 8 P/litre 12 P/litre 12 P/litre 15 P/litre 10 P/litre 10 P/litre 17 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre	18-10-67 18-68 21-9-70 8-5-68 21-9-68 1-4-58 1-4-58 1-4-60 1-4-70 1-5-5-66 31-10-69 26-2-70 1-10-69 15-10-59 cs tnx 1-1-69 21-12-67 1-1-4-69 21-12-67	11 P/litre 9 P/litre 6 P/litre 6 P/litre 10 P/litre 7 P/litre 12 P/litre 12 P/litre 12 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 10 P/litre 7 P/litre 10 P/litre 7 P/litre 10 P/litre 7 P/litre 3 P/litre 3 P/litre 7 P/litre 7 P/litre	1-7-68 18-10-67 1-11-65 22-9-70 8-5-68 1-8-62 28-9-68 1-4-58 1-4-66 1-4-70 1-5-5-66 8-3-69 26-2-70 1-12-62 15-10-59 14-67 1-4-69 1-4-69 1-4-69 1-4-69
Meghalaya	:	:	:	No le 15 P/litre	cal sales	11 P/litre	

⁽Tax on M. S. and H. S. D. oil is levied under the Bihar Motor Spirit (Taxation on Sales) Act, 1939 and tax on motor vehicles and motor vehicle spare parts is levied under the Bihar Sales Tax Act, 1959.

[@]Under the M. P. sales of motor spirit taxation Act, 1967.

TABLE No. 7(4)

RATES OF SALESTAX ON MOTOR VEHICLES AND MOTOR VEHICLE SPARE PARTS AS ON 31-12-1970—STATE-WISE

St telUnion			<u></u>		Motor V	chicles	Motor Vehicle spare		
ernitory					Rates on sales tax	Datefrom which effective	Rate of sales tax	Date from which effective	
	1)				(2)	(3)	(4)	(5)	
Andhra Pradesh.					10%	1-8-63	10%	1-8-63	
Andnra		:			12%	25-10-67	12%	25-10 67	
Assam @		:			10%	1-11-65	10%	1-11-65	
Bihar		-			10%	6-5-70	126%	6-5-70	
Gujarat					10%	1-4-63	10%	1.4.63	
Haryana Jammu & Kashm		•	·		10%	15-5-68	96%	1-7-66	
Himachal Prades		_			10%	1-12-70	10%	1-12-70	
Himacini Linica	••				13%	1-4-70	13%	1-4-70	
Kerala		•			170/	1-9-69	1267	1-9-69	
Maharashtra	~	•	1		10%	1-4-68	iő°;	1-4-68	
Madhya Pradesh	•		· ·	-	120%	1-4-70	12%	1-4-70	
Mysor		•	•		100%	1-1-70	10%	1-4-70	
Nagaland			•		10%	1-1-63	iò%	1-4-63	
Orissa			•		10%	1-4-63	1000	1-4-63	
Punjab .			•		10%	8-3-69	10%	8-3-69	
Rajusthan					15%	26 2-70		26-2-70	
Tomil Vauu .		•		•	10%	1-6-63	10%	24-10-68	
Uttar Pradesh .		•	•		12%	16-11-67	12%	16-11-67	
West Bengal		• T-	1 - 4.10	•	No sales		Vo sales	Tor.	
Andaman & Nic	ova.	L 13	13(1177)	٠	10%	1-11-66		1-11-66	
Chandigarh ,		•	•	٠	10%		10%	1-6-63	
Delhi			•	•	10%	1-6-63	10% 10%	1-11-64	
Gon, Daman & D	311	٠	•	•	10%	3-11-64	10%	26-5-65	
Manipur .		•	•			26-5-65	10%	1-4-66	
Pondicherry .		٠	•	•	100	1-4-66	10%		
Tripura !			•	•		lanles taxlar	v No local	sales taxlaw	
Meghalaya			•	•	12°6		12%		

[@]Position as on 31st December, 1968. £Under the M. P. General Sales Act, 1958. +Single point.

TABLE No. 7 (5)

GOODS AND PASSENGER TAX AS ON 31-3-1971 (STATE-WISE)

States/U.T.s					Goods Tax as lage of freight	Passenger Tax as Percentage of fare
(i)			******		(2)	(3)
Audhra Prades	lı		•		Nıl	Nıl
Assam@ .					10	10
Bthar .				•	12	121
Gujarat .		i	Ť		3	1-23
Haryana .			•		40	40
Jammu & ICasi	ism 11		•		Nil	20
Madhya Prade:	കത				10	15
Maharashtra	(e)			•	3	22
Mysore .	•	•	•		i 75	10
Punjab*	•	•	•	•	1 /3	25
Rajasthan				ء.	25 (Metalled R 20 (Other Road	oads) 25 (Metalled Roads)
Tamil Nadu					5	10
Uttar Pradesh					8	15
West Bengal				_	Nil	Nal
Andaman & Ni	koba	r Isla	inds	•	Nil	Nil
Dadra & Nagar	Hav	clì	•		Goods Tax is no levied.	
Chandigarh	3					35

[@]As on 31-3-1968

^{*}As on 31-3-1967.

Norr —For details refer to Motor Transport Statistics, 1970-71, Min of Shipping & Transport.

TABLE No. 7(6)

ANNUAL VEHICLE TAX ON TRUCKS AS ON 31-3-1971 (STATE-WISE)

(In Rs.)

20.0.000						TR	UCKS	
Septen/U.Te.					6.	5 Tonne 8	-3 Tonne / ay load T	inve? onne l'ar load
(1)			, , , , , , , ,			(2)	(3)	(4)
Andlera Fradesh	•		•			2,886	3,280	3,520
Amaza* {{}} Tritate	Clare	ier				1,498	2,655	620
(31) Yuldir	Carri	(1)				1,575	2,205	420
Ditar				,		1,295	2,575	₩0
Collarut						1,572	2,684	4110
Harrana	*					594	475	1,000
Incident & Rachard	٠.	-			4	395	395	242
Notala .						2.190	3,600	200
Madiga Promish					•	1,435	2,160	1,225
Materialitä 4		-	,	•		1,650	ያ,በታዕ	1200
Menes	-	•	-			8,600	1,600	F40
Polima .						2,300	3,000	2,000
*	w	•	•			554	675	益學家
Refferding .		4	•			2,250	2,310	2,210
TAMES STATE .	,		~			2,000	3,760	453
Buse Produce .	r	۵	•	•		1,751	T, 475	***
Wer Court	ä		ř	-		1,272	2,575	272
The section of the section of	*	*	+		ч	274	***	P.75

TABLE No. 7 (6)-Cortd.

	1			(2)	(3)	(1)
				750	1,250	1,250
-	-	-	-	920	1,330	•••
-		Ţ.	•	594	875	875
		•	•	200	300	400
				2,400	3,200	
:	:	·		150	200	300
	(1). (11)	(i)	(i) (ii)	(i)	(i)	750 1,250 920 1,330 (i) 594 675 (ii) 200 300 2,400 3,200

^{*}As on 31:3-1968.

Note. The above figures relate to the minimum tax.

(1) The tax levied varies according to the additional capacity of the truck/trailer added.

(2) Incertain Statestax islevied on the basis of Registered laden weight or of unladen weight. For the purpose of this statement approximate R.L.W. or U.L.W. corresponding to indicated Pay loads have been considered. For details refer to Motor Transport Statistics, 1970-71, Ministry of Shipping & Transport.

^{**}Ason31-3-1967.

[£]Ason31-3-1970.

TABLE NO. 7(7)
ANNUAL VEHICLES TAX ON PASSENGER BUSES AS ON 31-3-1971
STATE-WISE

								(In)	Rupecs)
	 			•	•		BUS	ES	
State/U. T.				40	Scats	52	Scats	60 Seats	Above 60 scal
(1)				•	.(2)		(3)	(4)	
Andhra Prade	sh*								100
. Andhra A	rea (1)	Tow	n Ser	vices	9,600		12,584	·· `14,400	2
	(2)	Mof	uss i 15	icrvices	9,600		12,480	14,400	` 24
Telengana A	rea (1)	Tov	vn Ser	vices	8,960		11,648	13,440	22
, 1, 1	(2)	Mot	luss i l s	crvices	8,960		11,048	13,440	2
Assam*				•	2,240		2,912	3,360	;;
Bihar* .	~	•			2,190		2,550	2,790	,600
Gujarat .	•				1,392		1,776	2,032	4000
Haryana	•	•	• •	•	4,200		4,200	4,200	10
Jammu & F	Lashmi:		•		395		395	_	•
Kerala* .	•	•	٠	•	5,600		7,280	8,400	.,
Madhya Pra	idesh*	•	•	•	2,250		3,210	3,850	f.
Maharashtra	i	•	•	•	2,200		2,880	3,320	24
Mysore .	•	• ,	•	*	4,800		6,240	7,200	5
Orissa .	•	•	•	•	4,800		6,240	7,200	40
Punjab*	•	٠	•	•	2,150		2,750	2,750	2,75 (Max
Rajasthan*	•	•	•	•	1,600		2,600	3,000	5
TamilNadu		•	•	•	9,600	1	2,480	14,400	. 6
Uttar Prade		•	•	•	1,452		1,124	2,572	`5
West Benga	ıl .	•	•	•	2,190		2.550	2,790	198

TABLE No. 7(7) -Confd.

(1)			(2)	(3)	(4)	(5) -
A. & N. I-lands*		•	. The tax on n cars) used f is Rs. 75).	notorvehic for carryin	cles (other than ig passengers o	motor n hire
Ihrndigarh\$. Delhi . Himachai Pradesh		•	2,150 2,150 700	2,750 2,750 700	2,750 2,750 No buse of capacity	
Nagaland\$ Tripura**. Goa, Daman & D Dadra & Nagar H	•	•	Nii 161 950 No tax o	Nil 185 1,250 n stage ca	N;1 201	Ni 400 dicabl

^{*}As on 31-3-1968.

Note.-Relates to minimum tax. The tax varies according to the capacity. Fordetails refer to Motor Transport Statistics, 1970-71, Ministry of Shipping & Transport.

^{**}As on 31-3-1967.

^{\$}As on 31-3-1970.

⁽A) Plus 30 for every additional person beyond 33 persons.

⁽B) Plus 32 for every additional sitting passenger in excess of 9 and 16 per standing passenger.

SECTION S_ACCIDENTS IN TRANSPORT

TABLE No. 8(1)

MOTOR VEHICLE ACCIDENTS DURING 1971 (MONTH-WISE) (FOR REPORTING STATES/UNION TERRITORIES)

State/Union Territory		Total	Jan.	ГеЬ.	March	April	May
(1)		(2)	(3)	(4)	(5)	(6)	(7)
Andhra Pradesh .		3565	273	295	263	313	348
Asiam	•	691	65	59	70	71	55
Bihar	•	4062	375	381	349	376	415
Gujarat	•	4191	360	391	331	408	149
Нагутта	•	732	13	66	54	61	78
Himachal Pradesh	•	216	10	17	20	23	20
Immu & Kashmir	•	528	23	36	47	51	82
Kerala	•	1319	S 19	\$36	381	378	391
Mahamatan	•	40793	3593	3316	3316	3460	3717
Mysore	•	5679	455	18G	506	498	535
Orissa	•	2209	228	205	223	197	212
Tamil Nadu	•	14950	1266	1148	1218	1182	1293
Punial.	•	746	48	60	54	56	50
West Bengal*	•	11088	1060	892	706	874	1019
Delhi	•	1080	613	575	653	539	594
Dadra & Nagar Hav	. *	15	010	4	1	2	2
Cor to water 1100.	cii.	837	72	58	77	83	82
Goa, Diman & Diu Manipur	٠	157	17	13	21	16	20
Pondicherry	٠	184	14	16	11	9	15
Tripura	٠	263	19	21	17	15	24
Charlen	•	124	11	5	12	7	14
Chandigarh	•	-	4	4	3	3	3
A. & N. Islands .	•	41 13	1		2		2
Anmachal Pradesh	٠	13					
TOTAL .		102237	8929	8384	8341	8622	9420

^{*}For Calcutta City only.

TABLE No. 8(1)-Centa.

State/Union Territory			June	July	Aug.	Sept.	Oct. Nov. Dec.
(1)			(8)	(9)	(10)	(11)	(12)(13); (14)
Andhra Pradesh .		•	336	304	312	274	243 294 310
Assam -	•		47	59	51	46	53 58 57
Bihar .	•		372	300	247	309	305 325 308
Gujarat .			321	335	298	284	309 369 336
Haryana .			18	57	53	50	72 57 60
Himachal Pradesl			27	14	21	23	23 21 27
Jammu & Kashmi	r	•	48	63	38	59	42 1 16 23
Kerala .	•	٠	315	347	360	368	
Maharashtra	•		3153	3273	3376	3405	3370 3448 3336
Mysore .		•	484	443	445	435	480 . 474 . 438
Orissa •	•		192	168	149	169	139 160 167
Tamil Nadu	٠		1297	1192	1240	1354	1304 1271 1185
Punjab .	•	•	67	59	5G	65	65 98 68
WestBongal*			839	1017	967	902	887 919 955
Delhi •	٠	٠	615	608	610	562	510 468 424
Dadra & Nagar I		li	I	t	710	2	2 2
Goa, Daman & D	iu		78	48	58	66	66 91 58
Manipur .	•	•	10	7	8	5	10. 13. 17.
Pondicherry			15	18	15	13	19 12 24
Tripura .	•	•	35	29	19	18	16 30 20
Chandigarii	•		9	17	15	18	
A. & N. Islands			2	1		-	15 6 8
Arumachal Prades	sh	٠		. 2		6 3	1 1 1
TOTAL		. •	8394	8362	8336	8427	8290 8508 822

Por Calcutta City only

TABLE No. 8(2)

MOTOR VEHICLE AGGIDENTS DURING—1971 BY CLASS OF MOTOR VEHICLES INVOLVED

	,				
State/Union Territory	Total	Matar Cycles	Auto- rickshaws	Jeeps	Motor Cars
(1) (1) (1) (1) (1) (1)	(2)	(3)	(4)	(5)	(6
Andhra Pradesh	3566	323	93	211	394
Atsam	691	34	8	89	121
Bihar	4062	332	42	338	572
Gujarat	4194	344	356	187	381
Haryana	732	37	13	36	68
Himachal Pradesh	246	4		50	10
Jammu & Kashmir	528	22	19	33	45
Kerala	4319	234	187	314	820
Maharashtra	40793	2222	558	925	13598
Mysore	5679	672	494	193	763
Punjab	746	65	4	31	112
Tamil Nadu	14950	1782	146	408	2816
Orima:	2209	108	5	245	297
Delhi	6801	1127	469	311	1703
Goa Daman & Diu	837	175	2	60	131
Dadra & Nagar Haveli	15	7	•	1	
Manipur	157	8		40	2
Pondichery (184	34	15	9	28
Tripura	263	23	1	.85	15
Chandigarli	124-	25 16	5	·· 9	31
A. & N. Islands	.41	9	٠.		
Arunachai Pradesh	√2. 13 .	1		. - .	. 5
TOTAL	91149	7579	. 2417	360B	21912

TABLE No. 8(2)-Contd.

			•	•	
State/Union Territory	?	Motor Gabs	Buses	Goods Vehicles	Misc. Class Vehicles Not known
(1)		(7)	(8)	(9)	(10)
Andhra Pradesh	•	299	652	1160	324. 76
Assam		36	109	216	46 30
Bihar	•	325	361	1406	353 393
Gujarat		256	681	1423	399 167
Haryana		10	115	345	98
Himachal Pradesh		3	57	105	17
Jammu & Kashmir		32	74	277	10 16
Kerala		793	852	854	198 67,
Maharashtra .		4975	7517	7773	2862 363
Mysore		389	783	1839	427 119
Punjab		1	93	201	114 125
Tamil Nadu .		2043	3522	3036	947 4 250
Orissa		92	286	849	252 75
Delhi		560	970	1370	111 3 1749
Gon, Daman & Div	ı .	42	143	234	47
Dadra & Nagar Ha	veli	3		3	1. 1. 1. Similar
Manipur		••	18	51	33
Pondicherry .		9	30	37	13
Tripura		5	32	71	9 22
Chandigarh -		_	- 22	19	21
A. & N. Islands		3	3 22	-	2.**
Arunachal Pradesl	ı .	-		. 6	13.38 3
,TOTAL		987	6 1633	9 21286	6287 1845

State/Union Territory	All types of Vo-	Votor Cycles	Auto- rick- shaws	Jeeps		Matar Motor Cars - Cab	1	Gos is Velsi-	Bures Goo ji Mise. Vehie Vehicles
(1)	(3)	ઈ	ε	3	(9)	(3)	(g)	(6)	(10)
Andhra Pradesh	28-32	7.10	100-97	•	11.1	£	92-29	5.83	è
Bitte	15.50		102-56		10.30	13-18	10 99	14-71	
Culture	52.95		170-97		31.34		19.83	00.50	
Harring	28-34		42.87	23-42	17-59	153-39	122-42	43.90	10-23
Himselvi Paris.	33.18		21.10		30-52		116.16	87 69	
Jahma & Probest	- :: ::::::::::::::::::::::::::::::::::		1		51 02		81 43	56-70	
Kinh .	17.57		320-19		18.67		67-27	55-10	
Maharashera	90.00		176-03		21 63		129 82	61.08	
Mylore .	56-161		99-96		130 07		26 669	133 18	
Punjab ,	יים לר. מיים		76 71		25 61		117 57	93 26	
Tamil Nada	1101		16.00		13 13		33 81	21 71	
Orum	20 21		73.55		65 28		167 48	172 50	

87-11 310.83

238 17 72 21 145.76

72 28 30-17

19-53 ì

73-55 11-64 45-89

65-55 37.69 119 33

> Orissa Delli

TABLE No. 8(3)-Confd.

(E)		(3)	ව	€)	(2)	9		(2)	(a)	î l
Dadra & Nagar Havell 39-37 31-25 Goa, Daman & Diu . 62-04 43-93 64-1 Manipur . 57-05 21-22 Pondicherry . 51-44 24-67 937- Tripura . 65-93 55-02 500- Chandlgarh . 17-51 3-54 6-1 A. & N. Islands . 39-96 24-26	fu .	39-37 62-64 57-65 51-44 65-93 -17-31 39-96	31.25 43.93 21.22 24.67 55.02 3.54 24.26	64-52 937-50 500-00 6-08	43-48 43-48 89-11 75-02 64-73	25 22 23 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	1000.00 10 - 1 166 - 1 1.51 236.84 3 1.92 64.94 1	78.2 78.2 303.0 118.9 125.0(93.75 — 57.52 — 6 64.15 190.95 159.48 46.91 6 56.08 75.43 139.48 46.91 6 36.08 75.43 137.55 132.55 137.56 16.81	190-95 46-91 75-43 132-53 16-81
Total	. • l	40.86	13.16	65-74	13.69	40.61	163.39	48.06 13.16 63.74 43.69 40.61 163.39 173.99 62.12 47.03	62.12	+7.03

MOTOR VEHICLE ACCIDENTS DURING 1971 BY NATURE OF ACCIDENTS Samuel Same

State/Union	Total		***	Collission	n with					Other
Tertitory		Other motor vehicles	Cyclists	Cycle. Rick-	Bullock Carts	Pedes- trians	Animals	Trees	Trains	aci- dents
(3)	(2)	;(3)	€)	(3)	(9)	€ .	(6)	(6)	(10)	13
A. Alexander										
Pradesh	3,563	678.	422	104	203	1,208	11	.48	39	764
Assam.	169	144	84	61	18	219	11	9	7	200
lihar .	4,062	249	, 377	48	188	1,098	126	58	135	1,785
Gujarat	4,194	1,174	410	101	119	935	145	75	I	1,244
Haryana	732	58	102	61	38	84	i	43	G	335
Himachal. Pradesh	246	\$	8	t	I	91	c	~	1	171
Jammu & Kashmir	528		20	ı	44	150	1	G	1	173
Kerala'	4,319		340	46	26	2,112	13	38	13	1.916
Miharashtra	40,793		1,920	130	356	8,447	511	171	197	6 507
Mysore	5,679		474	24	186	2,079	97	131	23	746
Punjab	746	143	197	11	24	148	ස	9	61	201
namii Madu	056,447		2,086	267	564	4,111	194	194	13	3,296

True. No. 8(4) ... Conid.

(3)	(2)	(3)	€	3	(9)	(2)	(8)	6)	(10)	Ξ
Orleta Delbi	2,209	178	121	39	59	483	173	55 20	29 5	1,030
Dadra & Na-	15	64	1	ł	1	v	:1	-	ł	1
Goa, Daman	637	316	65	:	9	178	61	17	ကင	233
Manipur .	157	21	26	က	-	8 3	'n	٠,	0	7 6
Pondicherry.	164	3	32	۲.	ယ	S ;	1 9	4 4	l	=
Tripura .	263	භ	භ	-	-	130	м.	! •	1 -	
Chandigarh	124	46	43	ນ	-	91	-	1	-	,
A. & N. Islands	4	8,	*	ŧ	1	80	64	-	-	14
Arunachal Pradesh	13	ਪ	1	1	1	၈	ł	I	1.	ຕຸ,
Тотль	91,149	11,149 34,557	8,111	936	1,847	1,847 23,310	1,507	930	508	508 19,443
-									E	

TABLE No. 8(5)

MOTOR VEHICLE ACCIDENTS DURING 1971 BY PRIMARY CAUSES OF ACCIDENTS

State/Union Territory	Total	Fault of driver of M.V.	Fault of driver of vehicle other than a M.V.	Fault of	Fault of pedes- trians
(1)	(2)	(3)	(4)	(5)	(6)
AndhraPradesh	3,565	2,086	53	230	392
Assam	691	389	65	29	43
Bihar	4,062	1,839	548 *	199	403
Gujarat	4,194	2,978	117	240	365
Haryana .	732	453	17	45	54
Himachal Pradesh	246	201	3	40	3
Jammu & Kashmir	528	249	25	8	21
Kerala	1,319	2,944	79	165	361
Maharashtra	10,793	7,449	1,933	1,221	5,202
Mysore	5,679	1,613	250	55	183
Punjab	746	630	34	14	2
Tamil Nadu	14,950	9,137	741	892	1,561
Orissa	2,209		34	73	241
Delhi	5,209 5,801	1,393	14	73 78	28
Dadra & Nagar Haveli	0,001	6,573	17		3
Gog, Daman & Tim		2 357	59	32	82
Manipur .	837		79	9	5
Pondicherry	157	41	10	9	38
Tripura	184	76	12	2	25
Chandigarh	263	177	. 1	Z	23
A. & N. Islands	124	120	. 1	1	8
Arunachal Pradesh	41	27		1	1
	13	6	~~·		
TGTAL .	91,149	41,740,	4,001	3,302	9,021

TABLE No. 8(5)—Cortd.

State/Union Territory	Pa	ult of issen- gers	Defect in mecha- nical condi- tion of M.V.	Defective road surface	Bad weather condi- tions	Other causes	Causes not known
(1)		(7)	(8)	(9)	(10)	(11)	(12)
Andhra Pradesh .		65	201	23	14	428	75 *
		17	34	17	î	46	50
Assam		190	221	65	60	261	276
Bihar		18	214	23	20	192	27
Gujarat		18	92	23	29	23	*11
Haryana		3				13	3
Himachal Pradesh	•		21	2 5	5	81	71
Jammu & Kashmir .		4	59		67	159	134
Kerala		72	240	98	451	2,0991	1,853
Maharashtra	•	150		350		171	94
Mysore	•	48	224	26	15	47	
Punjab	•	G	-	5	2		550
Tamil Nada	•	463		77	81	888	39
Orissa	•	6		58	13	123	18,
Delhi		24	3	4	2	56	10,
Dadea & Nagar Have			. 5		1	2	8
Goa, Daman & Diu		16	95	29	58	110	-
Manipur	•	1	l 24	4	2	23	48
pordicherry .		;	5 3			14	27
Tripura		2	3 17		10,	,14	б
Chandigarh .			ı			1	1
- A. & N. Islands			- 5	_	_		
Arunachal Pradesh	•	1	1	2	_	. 1	<u> </u>
TOTAL		1,09	5 3,441	783	831	23644	3,291

TABLE No. 8(6)

MOTOR VEHICLE ACCIDENTS DURING 1971 BY TIME OF DAY

State/Union			ι.	l'otal	Day Light	Darlness	Ime not
(1)			-	(2)	(3)	(1)	(5)
Andhra Pradesh			*****	3,565	2,552	983	30
Astain		•	•	691	447	206	38
Bihar	٠	•	•				514
Guiarat	•	•	•	4,062	2,361	1,157	
Hararchat Practical	•	•	•	1,191	3,174	1,101	19
Haryana ;	•	•	•	236	101	55	10
Jammu & Kashinir	*	•	•	732	510	186	36
Kerala	•	•	•	728	389	80	59
Maharathera	•	•	•	1,319	3,205	1,069	45
Masore	4	•		10,793	29,378	1,366	159
Punjah	•	•		5,679	1,279	1,366	34
TamiNadu	•	•		74G	195	270	41
Oritra				11,950	10 188	4,501	258
Worth				2,209	1,117	644	118
WestBongal* Delhi				11,088	4,352	5.428	1,308
Doint				6,801	4,537	2,063	201
Dadra & Nagar Hav	eli			15	7	8	ومطيب
Weds Walliam R. 151				837	671	160	£
"Lanintir			-	157	114	38	10
Pondicherry				181	143	41	-
Tripura				263	206	48	9
Chandigarh		•	•	124	78	39	2
A & N. Islande	Ċ	•		41	16	25	-
Arunachai Pradesh	•	`.	Ċ	13	12		
	r	OTAL		1,02,237	68,685	30,623	2,929

^{*}lor Calcutta City only:

⁸⁻² M of S & T. (N.D.//3

TABLE No. 8(7)

MOTOR VEHICLE ACCIDENTS DURING 1971 BY CONDITION OF MOTOR VEHICLE INVOLVED

State/Union	Ten	ritory		Total (Over -	tive	Defec- tive steer- ing	In- suffi- cient or no light	ture se	ther Left rious hand schn-ste- nical ering fects
(1)				(2)	(3)	(4)	(5)	(6)	(7)	(8) (9)
Andhra Pra	desh		<u></u> `	331	84	67	32	16	26 :	60 46
Assam .	•			387	61	89	40	54	27	.49 , 67
Bihar .				611	319	113	42	23	12.	31 71
Guiarat				394	152	63	45	44	29	33 28
Haryana				132	40	8	3	12	21	48
Himachal I	rade	sh		47	13	8	• 3	1		9 13
Jammu & I	Kash	mir		78	1	17	4`		3.	35 18
Kerala				568	246	95	5	7	3	130 82
Maharashtr	3			2,307	717	307	171	116	204	389 403
Mysore				563	219	93	19	5	51	112 64
Punjab				38	10	6	1	15	2 .	ي#رن بيد
Tamil Nad	i.		٠	3,088	393	687	18B	169	169 1	,087 ³⁹⁵
Orissa.		•		5GB	191	93	17	17	, 50	52 148
Gas, Dama	a &	Dia		124	28	34	13	14	ິ່`2:	.32
Manipur				36	2	7	1	4	4	'15 ¹ . 3
Pondicher				17	14	3	·	Ť	-	يسعام المساء
Dadra & N			li.		2	3				ويستشررنه وسنساخ
A. & N. Isl				5		4				ئىيى، ئ انىد ىل
Arunachal	Prad	esh	•	7	. 4		, -			3
- 46 - 4 4 1	Te	İTAL		9,306	2,494	1,69	7 584	1 197	7 604 2	,082 1,348

^{*}Include only accidents in which the conditions of motor vehiciles were responsible for accidents.

TABLE No. 8(8)

MOTOR VEHICLE ACCIDENTS IN 1971 IN WHICH COMMERCIAL VEHICLES WERE INVOLVED BY STATUS OF CERTIFICATE OF FITNESS

State/Union Territo	sty			Total	Gertificate of fitness in force	Certificate of fitness not in force	Particu- lars of certific- cate of fit- ness not known
(1)	~~~			(2)	(3)	(1)	(5)
Andhra Pradesh Assam Bihar Gujarat Harjana Himachal Pradesh Jammu & Kashmic Kerala Mahacishira Mysore Punjab Tamil Nadu Orisea Goa, Daman & Diu Manipur Pondicherry		• • • • • • • • • • • • • • • • • • • •		2,111 247 2,134 2,716 470 165 268 2,794 20,777 3,481 286 8,585 1,327 419	1,926 189 1,875 2,566 353 98 163 2,526 18,444 5,219 190 7,936 741 419	8B 16 125 109 20 8 2 181 294 132 24 240 315	97 42 134 11 97 59 103 87 2,039 133 72 409 271
Didra & Nagar Hav A. & N Islands Arunachal Pradesh	•		•	83 30 4 46.007	83 	1,555	3,650

TABLE No. 8(9)

RATE OF CASUALTIES IN MOTOR VEHICLE ACCIDENTS

State/Union Territory			•	Total	No. of persons	No. of	lasuaitie acci	s per hu dents	ndred
				casual- ties	killed	injured	Total	Persons killed	Persons njared
	(1)			(2)	(3)	(4)	(5)	(6).	(7)
Andhra Pra	ıdeslı	•		3,760	1,166	2,594	105-47	32.71	72.76
Assam .				1,172	326	846 •	169-61	47:18	122-43
Bihar .				3,396	812	2,584	83-60	19.99	63-61
Gujarat				14,450	850	3,600	106-10	20.27	85-83
Haryana	•			1,034	300	734	141-25	40.98	100-27
Himachal ?	Prade	slı		551	105	446	223-93	32-68	181-30
Jammu &	Kashi	mîr		7.19	158	561	136-17	29.92	106.25
Kerala	•			4,859	536	4,323	112-57	12.41	100-16
Maharasht	fZ			17,456	1,674	15,592	42.82	4.60	38.22
Mysore				8,590	1,257	7,333	151-26	22-13	129-13.
Punjab				799	470	329	107-10	63.00	44-10
TamilNac	lu.			11,685	1,592	9,993	78-16	1	66-84
Orica.				1,931	302	1,629		1 ·	
West Beng	al*		•	3,188	418	2,770		1.3.77	
Delhi.				4,045	- 4,10	3,635		,	
							- •	"] " . "	

^{*}For Osloutta City only.

TABLE 0(9) _Contd.

(i)	(2)	(3)	(4)	(5)	(6)	(7)
Dadra & Nagar Haveli .	25		25	166-67		166-67
Goa, Daman & Diu	8,60	44	616	78.85	5.26	73-59
Manipur	277	29	248	176-43	18-47	157-96
Pondicherry	201	18	183	109-24	9-78	99.46
Tripura	291	49	242	110.65	18-63	92.02
Chandigarh	149	24	125	120-16	19.35	100.81
A & N Islands	70	9	61	170.73	21.95	148.78
	22	41	10	169-23	30-77	138-46
TOTAL	69,340	10,053	52,487	67.82	10.62	57.21

^{*} For Calcutta City only.

TABLE No. 8(10)

STATE-WISE TREND OF MOTOR VEHICLE ACCIDENTS

` '									
State/Union	Territ	ory		1966	1967	1968	1969	1970 - 197	
(1)				(2)	(3)	(4)	(5)	(6) ?; (7	月 衛 市場
Andhra Pra	lesh .	,		2,724	2,691	2,689	3,027	3,260 3,	
Assam .			,•	1,192	1,192	979	1,169	1,021	691
Bihar .				3,086	3,323	3,762	3,687	3,921. 4	
Gujarat				2,638	2,795	3,343	3,191	3,851	
Нагуава						476	558@	556@@	732
Himachal	Prades	h		131	222	219	231	238	246
Jammu &				- 160**	180(E)	202	159,		
Kerala				2,916	3,313	3,768	4,156	4,214	
Maharashi	ra			9.079	32,625	34,283	34,077	36,115 40	793
Mysorc	•			3,196			4,980(E) 5,821	,679
Madhya I	Pradesi	ı .		3,030*	3,068			•••	` .,••• •.
Nagaland				•••	•••	•••	36	25	
Orissa .				1,728	1,921	2,119	2,143	2,045	2,209
Punjab				743*	** 534	550(E) 570	836	745
Rajastha	n ·			665	795	999	1,257	1,576	
TamilN				8,685	9,519	10,190	11,696		4,950
Uttar Pr			,				5,706		5,85
West Be				23,47	s	. 21,177	17,512	15,336	÷.
A & N	Island	9		. 1	3 1	4 2	5 54	34	
,								-X-	. 5 - 7

TABLE No. 8(10)-Genta

(1) (2) (3) (4) (5)	(6)	(7)
Chandigarh		
Delta:	`	••
Dadro & Nagar Haveli. 8,256 7,794 7,742 8,014	7,703	6,801
表示に対象し上: 1.1.1 1.2.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1 1.3.1	13	` 15
Goa, Daman & Diu 419 480 598 565 Maniput 120 125 126	817	837
Manipur 7. 120 125 128 116 Pondicherry 127 113 128	125	157
7 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	186	184
172	177	263
Arunachal Pradesh	• • •	13

[&]quot; @For the year 1968-69.

^{@@}For the year 1969-70.

for 1965.

^{**}For 1963. (E) Estimate

For the year 1964.

TABLE No. 8(11)

TREND IN STATE-WISE M.V. ACCIDENT RATES PER 1000 OF VEHICLES ON ROAD (1966_71)

State/Union Territory	1966	1967	1968	1969 1970 1971
(1)	(2)	(3)	(4)	(5) (6) (7)
I. Andhra Pradesh .	38.5	32.0	29-8	33 5 26 3
2. Assam	39.0	35-6	27·8	31.0 24.0 14.
3. Bihar	70.3	66-4	65-0	61-2 61-7 53
4. Gujarat	34.5	32-5	34.0	28.8 30-4 28
5. Haryana	. ~		34.0	32.6 28.6 33
6. Jammu & Kashmir	. 18.5	20.0	20.9	15-3 47-6 47-
7. Kerala	65.7	66-9	62.3	59-5 53-9 50-
8. Madhya Pradesh	54-8	52-3		الله و دوره . الله و دوره .
9. Maharashtra .	52.9	167-9	158-4	140-0 150-0 132-
10. Mysore	. 42•4	44.0	51.5	53-1 52-9 45
.1. TamilNadu .	111-7	110-4	108-9	112-3 105-7 119-
2. Nagaland	• •••		***	25.7 12.4
13, Orista	. 79-8	75-9	84-1	75-7 63-9 65-
4. Panjab	20.0	17-1	16.3	15-8 22-0 18:
3. Rajasthan .	13.6	15.6	16-0	17-6 - 20-1
6. Uttar Pradesh	• ••-			52-9 55-8
7. West Bengal	. 138·B	•••	•••	102-7 95-1
18, Himachal Pradesh	42-0	67-1	8.09	58-5 54-2 53-

TABLE No.8(11)_Contd.

] (i)	,	(2)	(3)	(4)	(5)	(6)	(7)
19: A. & N. Island		26.6	25.5	38-1	71.7	39.3	40.0
		.i100•7	92-1	69.8	61.9	51.2	37.7
21. Dadra & Haveli	Nagar	·	••	••	51 • 1	28-1	39.4
22. Goa, Daman	Ł Diu	34.7	38.6	51.2	58.6	67.9	62 • 8
23. Chandigarh				••	27.1		17.5
24. Pondicherry		. 110-5	27.4	30.7	59.5	52.0	51.4
25. Manipur		57.9	60-3	55.4	48.2	48.7	57-1
26. Tripura	•	46.5	46-9	52.9	51-4	46.2	65.9
The state of		***************************************					

TABLE No. 8(12)

TREND IN RAILWAY ACCIDENTS (1962-63-1971-72)

Year				Colli- sions	Demil- ments	Fires in trains	Accidents involving trains at level crossings	train ccidenti
(1)				(2)	(3)	(4)	(5)	(6)-
1962-63		•	•	98	1,316	55	168	1,637
1963-64				93	1,300	81	161	1,635
1964-65		•	•	81	1,035	31	146	1,293.
1965-66		•	•	- 74	962	42	123	1,201
1968-69	٠			47	684	48	129	908
1969-70	٠		•	54	751	47	111	963
1970-71	•	•	•	59	648	12	121	840
1971-72	•	•	•	57	687	22	118	864

Source-Indian Railways, 1971-72.

SECTION 9.1 PUBLIC SECTOR MOTOR TRANSPORT

PUBLIC SECTOR MOTOR TRANSFORT INDUSTRY

Nationalised passenger service exist in all the States and Union Terriaries, except. Tripura, Pondicherry, Goa, Daman & Diu, Dadra and Nagar davell; Laccadive & Minicoy Islands and Meghalaya.

The Road Transport Corporation Act

The Road Transport Corporation Act, 1950 was a fillip to the nationalisation of road transport. This Act provides for the formation of statutory corporations with a financial participation of Central Government, the State Governments and the public. The State Governments have roughly provided about 55% of the capital of these corporations and the Central Government and others.

So far upto 1969-70 Andhra Pradesh, Bihar, Gujarat, Kerala. Madhaya Pradesh, Maharashtra, Mysore, Punjab (erstwhile PEPSU), Rajasthan, West Bengal and Himachal Pradesh (Mandi-Kulu) have such corporations.

The coverage of nationalisation has so far been fairly wide in Maharashtra, Gujarat, Delhi, Chandigarh, Himachal Pradesh, Manipur and Andaman and Nicobar Islands.

The overall coverage of nationalisation of passenger buses is of the order of 29 percent considering the number of vehicles in this sector.

4 Road Transport Financing

With the growth of motor transport in the country, the operators in both the public and private sectors have experienced increasing need for organized finance. Further the operators in the private sector being mostly small-scale operators; the question of viable units was examined. In this connection the conclusion and recommendations of the Study Group on Road Transport Financing and the Study Group on Viable Units may be seen at Annexures VII and VIII.

TABLE No. 9(1)

NATIONALISATION OF PASSENGER AND GOODS VEHICLES

io India (1958-59 to 1971-72)

Year (As on 31st March)	Total No. of buses lo India	busesum- ion der the tion public pass	-lian- 1		No. of of lorrice Nationa- underthe lisation Public of goods sector transport under- takings
(1)	(2)	(3)	(4)	(5)	(6) (7)
1959.	40,026	14,060	29.3	1,47,625	1,160 0.79
1960.	. 53,574	16,093	33.0	1,56,671	1,062
1961.	. 36,792	17,962	31.6	1,67,649	1,101 0.66
1952.	. 50,560	20,344	32.4	1,69,096	1,100 0:50
1963.	. 62,560	22,048 .	35.2	2,15,408	1,188
1964	, 66,513	3 23,583	35.5 -	2,24,181.	1,412 0,63
1965.	. 70,479	24,784 -	35.2	2,41,840	1,560
1966.	73,17	5 26,495	36.2	258,977	1,761
1967.	76,03	3 28,592	37.6	2,66,190	1,947:0.73
1968.	. 62,72	9 30,760	37.1	2,84,636	2,256
1969.	. 67,43	6 32,927	37.7	3,03,524	
1970.	. 91,58	2 35,189	28.4	3,22,292	2,961@ 0.90
1971.	93,90	74 37,073@	39,5	3,42,577	
72.	99,39	44 40,596@	40.8	3,63,889	2,552 0.70

⁴Figures are provisional.

[@]Source-State Transport News.

TABLE No. 9(2)

NATIONALISATION OF PASSENGER VEHICLES (STATE-WISE) (1971-72)

State		···	· · · · · · · · · · · · · · · · · · ·			To	tal No. f buses	No. in Nationlised Undertak-	% in Public Sector
								ings@@	
	(1)						(2)	(3)	(4)
Andhra Prades	h	•	•	•	•		(7,100)	2,635	37.1
Assam .		,					(2,700)	487	18.0
Bihar .							(4,600)	1,495	31,2
Gujarat .							6,362	4,987	78.4
Kerala .							6,840	1,695	24.8
Madhya Prade	sh				.•		(5,225)	1,977	37.8
Maharashtra							10,234	8,251	80.6
Mysore .							7,331	3,272	44.6
Tamil Nadu							10,820	2,891	26,8
Nagaland .	,						140	122	87.1
Orissa .							2,181	• 728	33 4
Punjab .			·				(2,780)		67.1
Rajasthan		•					(7,900)	724	9.2
Uttar Pradesh		•					(8,150)	4,288	52.6
West Bengal	. '						(9,060)	1,469	16.2
Himachal Prac	icsh		•				816	818	75.7
A. & N. Islan		·		Ċ			31	25	83.4
Delhi f.		·			•		3,326	1,338	40.2
Goa, Daman	ni	11 -	•	·			(872)	_	-
Chandigarh		- •	•	•	•	•	(200)	53	26,5
Pondicherry	•	•	•	•	•		(103)	-	
Manipur .	•	•	•	•	•		242	73	30.2
Tripura	•	•	•	•	•	•	269		-
	•	•	•	•	•	•		•	

^{*}As on 31-12-1971.

^{@@}State Transport News, July, 1973.
Figures in brackets are estimated figures.

THON OF UNDERTAKINGS BY TYPE OF SERVICES OFFERED TABLE NO. 9(3)

	Passenger City Passenger District Com-Service (in-Service conding IIIII Fasserice chuling IIIII Fasserice senger Service)	(5)	1. TSTD, Madras 1. CSRTC, Ab. 1. APSRTC, Hy. 1. AMSRTC, Gau- medabad derabad
	Passenger oun-Distri Service	(+)	1. APSRTC, derabad
DISTRIBUTION OF CADENTAL AND STATE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROP	Passenger District Service	(3)	1. GSRTC, Ab- medabad
TOTAL AND MORE	1	(2)	1, TSTD, Madras
DISTRIBUT	Goods Service	- (E)	RTC, Calcutta

3, BESTU, Bom- 3, MySRIG, Bai- 3, MySRIG, Ban- 3, J&RGIU, Srl-bay calore cagarh 2, AMTS, Ahme- 2, BSRTG, Patna 2, KSRTG, Tri- 2, UPSRTG, Fack-dabad, now" 4, DTC, Delhi

1, CRTC, Calcutta

4, MIKRYG, Ma-6, HGT, Simla* 5. MSTD, phal** 6, CSTC, Calcutta 6, PRTC, Patiala 5. CTU, Chandi. 5. PCTS, Chandi-garh garh 4. MSRTO, Bom-bay

Ē

7, PMTS, Poona 7, RSRTC, Jai-

(5)	,				
(+)					-
(3)	8. STSO, Cuttack	9, HG1S, Chan- digath	10. Oafte, Ber- hampur	11. STS, A & N Islands	Wiese police
, 1 (2)		•	•		**On refee Passander Half Services and
£)					**Os

^{**}Ourates Pusenger Hill Services only.

* Ourates Punenger Hill and Plain Service.

TAREE NO. 9(4)

TAMES NO. 9(4) TAMES OF PUBLIC SECTOR ROAD TRANSPORT UNDERTAKINGS	TAMES 'N PUDLIG SECT	io. 9(4) Or. rod	D TRA	NSPORT	L UND	ERTAK	INGS
TOTAL OPERATIONS	(190961)	0 1971-72					1
	190	1960-61 1965-66 1968-69 1969-70 1970-71 1971-72	961 99-	961 69-8	9-70 19	70-71	71-17
Items	١			1	9	3	(e)
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	(2)	(3)	€	2			
(1)			Ş	33	33	33	÷.
. trialertakings	. No.	£ 6	2 2	29	29	29	.29
I, (a) No. of Chicago	. No.	67		27.0	277	296	224€
(a) No. Ivaliant	R.in crofts	1	246			2.3	48
2. Capitalamployed .		I	£.	3	â	3	* 20
3. Capital expenditure		141	232	273	300	171	180
A Ennioyment	.000 000.	161	149	001	2 1	1.4	72
Traffic .		35	5.4	99	7.7	. 1	
Malntenance & Repairs	:	18.0	28.5	35.5	38.4	38.7	?
thurst Strength	:	17.6	26.5	32.9	35.2	1.00	9 0
Hases	:	· :-	1.8	64 61 1	9 6	9 6	0.3
Trucks	<u>.</u> :	0.5	0.2		3	, ,	202
Taxis	1.000 15	I	I	523	524	000	
6, Diesel	Litres			7.650	254.81	277.40	300.97
Revenue	. Rs.In crotes		131.2		254.97	282.14	309-17
(b) Opporting costs (including	.	6.00		! ;;			
interest on the state							

j

J						2	æ
10	(2)	6	Đ	3	(a)	(3) (4) (5) (0) (7)	. 6
1 (2) Ournmen costs fexeluding		62-7	138-6	218.2	241-8527	62-7 138-6 218-2 241-85 270 /0 231-02	
		a•‡	4.9	5.3	10.16	5.3 -0.16 -5.04 -8.20	05.50 66
	% Rs; in crores	1 :0	12 6	14.5	9.96 67	67 6	6-13
(c)] As of of capital employed.	. %	I		5.0	3.6	2.26 2	2.75
8. Contribution to National Income Rs in crotes	Rs in crofes	5.1	78 3 52-9	127.3	9 67	15/6 15:0	F-1
9, Value of Bus Traffic: (1) Passengers extred	. Grores	206-0 26-2	356-9 45-2	06.0 356.9 462.5 26.2 45.2 58.7	475.0 60 4	206-0 356-9 462-5 475-0 500-69 533-4: 26-2 45 2 58 7 60 4 80 67 90-21	3-4:
10, Totalvehiele-kms, run; (1) Bus-kms (paid) . (11) Truck-kms, (paid) . (11) Taxi-kms (piid) . (1. \text{Lord-nt}\text{Villion bus-kms}		838 13 17.50 1 80 21.2	8 13 1438 20 19 7-50 10 37 1 80 2 43 21-2 17 7	1902-61 11-00 2-95 15-5	18 13 1438-20 1902-61 2009-14 2136-30 17-50 10-37 11-00 16-05 45 09 1 80 2 43 2-95 2-98 3 55 12-2 17-7 15-5 13-9 13-3 13-4 13-3 13-4 13-3 13-4 13-4 13-4	듾	2.70 12.70 13.1 128 5
12, Average Revenue/Vehicle-km	. Palsc	2.40	601	771			

& Capital emplayed to 1971-72 represents grossfaxed assets excluding expital works in progress minus cumulative d'speciation plus or minus working capital i e, the difference between currentiassests loans and d'vinces including investments and current liabilities and provisions. In critier, years, hy viver, it represented expital investment by sources minus depreciation cach year only

TABI B No. 9(5)

TOTAL COSTS OF OPERATION ON PUBLICATION (1960-61 to 1971-72) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakks) (Rs in lakk	(Re in takha)	1970- 1971-	7,508 8,571
1L COSTS OF OPERATION ON PUBLICATION 1971-72 [1960-61 to 1971-72 [1960-61 to 1971-72 [1960-61 to 1971-72 [1]	c	7- 1968- 1969-	(4) (5) (6)
ALCOSTS OF OPERATION ON FOL	160-61 to 1971-72	60- 1965- 196 1	(3) (4)
AL COSTS OF OP	gration on Pol (19	19	
E -	TAL COSTS OF OP	Items	(1)

197	=	7,80
1969-	(9)	7,189
1968- 69	(5)	6,250
1967-	(3) (4) (5)	308
1960- 1965- 1967- 1968- 1969- 71	3	737 308 6,250 7,189
1960-	; 3	
		ŀ
Items		3
,		
1	1	

217	=	7,808 1,000 5,113 1,695
1965- 1967- 1968- 1969- 19 66 68 69 70	(3) (4) (5) (b) (7	1,780 1,795 3,306 6,250 7,189 7,808 1,000 223 127 618 681 790 1,000 1,100 1,157 2,12 3,111 4,193 1,193 1,193 1,195 1,195 1,695
-8961 69	(3)	6,250 681 4,193
1967- 68	(4)	3,308
1965. 66	3	3,795 127 2 1.5 5
1960- 61	3	1,780
Items		1, Case of Parsonact suployed (1) Lindingston

25 /	1 6	5 6
1970-	-	1,000
1969-	(a)	7,189
1968- 69	3	6,250
1967- 66	(4)	308,0
1965	3	3,795
1960-	3	1.780

- 1	@	6,571 1,194 5,524 1,853
1970-	7	7,808 1,000 5,113 1,695
1969- 70	(£)	790 790 4,813
1968- 69	(5)	681 4,193
1967-	(4)	3,308 618 3,501
1965-	3	3,795

a	1,194 1,194 1,853 11,092 5,096 478 2,422 109	2,889	2,930	
	7,008 1,000 5,113 1,695 1,695 4,702 4,702 429 2,308	2,579 81	2,865	
3	7,189 790 1,813 1,556 9,172 1,380 374 2,085 86	2,176	2,577	
3	681 681 1,376 8,057 1,035 381 1,829	1,647	2,130	

7,23 } 3,582 326 1,632

> 2,037 956

1.151 131

103

2,319

50

(111) Unitenance & reputes. 2 Cont of materials consumad

(11) Trith:

691,1

2372 826 5, 157 211 226

2,194 2,038

1 691 1,822

276 978

3. Depreciation on assets

(i) Vehicles

1,541

1,378

574

(v) Stores, spares & other consuma-(vi) Tickets Efricket equipment .

(111) Pyres & Tubra (11) Lubricants (iv) Buttories

(i) Uasi •

9(5)-Contd.
Š
TABLE

				-			
	18	€	€	(3)	(9)	(g)	E
(3)	1				6,7,0		;
(11) Otherassets . (1) Rents, rates, not arracer & taxes (1) Welfre & Superanniation . (11) General contingencies . (11) Miscellancous .	51 1,198 679 111 103 305 313	51 128 198 2,776 177 1,059 111 314 103 242 305 363	156 1,246 5 2,843 3 493 283 627 6 627	163 5,079 3,135 558 287 799 924	5,546 3,950 671 369 533 1,013	6,196 1,288 765 322 821 1,174	6,868 4,772 893 317 886 1,136
5. Interest of the	6,588	11,175	6.588 11,175 19,816 22,710 21,497 28,211 30,917	22,710	21,497	28,211	30,917
Total costs							

Table No. 9(6)

TOTAL GOSTS OF OPERATION PER PAID-KILOMETRE (1960-6 to 1971-72)

(In passe)

				١		!		
Items		1960- 61	1965- 1	967- 68	1968- 69	1969- 78	1978-	1971
(3)		3	3	€	ŝ	(9)	(£)	(8)
1. Pergonnel :	pulra	2.55 13.25 1.58	2 97 17 68 5•75	3.55 20 10 6.83	3 52 21 64 7-18	3 8 t 23 5 4 7 5 6	4·58 23·44 7·77	5.19 24.00 8.05
2. Materials (1) Fuel (11) Libricants (11) Tyres & Tubes	• • •	13·21 1·17 4·98 0·32	19 83 1•17 6 65 0•38	20.56 1.87 9.37 0.52	28.83 1 96 9 44 0.17	21.29 1.82 18 13 0.42	21.55 1.97 10.58 0.47	22·14 2·08 10·52 0·17
(v) Batesties (v) Stores, spareas& other consum v bles (v1) Tickets & Ticket equipments	r consum r quipments	6.58	-	8.85 0.36	8 50 0-38 12-54	10.58 0.34 12.52	11.82 0.37 13.14	12.55 0.43 12.62
3. Depreciation .		7.		- 1				

(a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (e) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	. (2)	(C)	€:	3	(o)		
Overhend costs. (1) Ronti, rates, taxes & insurance 7.78 [2.93 [6.32 17.73 19.19 19.66 20.74 [1]), Welfare & supermunition 1.27 2.18 2.83 2.88 3.28 3.51 3.69 [11], Welfare & supermunition 1.18 1.68 1.63 1.48 1.79 1.48 1.38 [11] General contingencies 3.49 2.53 3.60 4.12 2.69 3.76 3.85	1.18	2.18 1.68 2.53	2.83 1.63 1.63 3.60	17.73 2.88 1.48 4.12	19-19 3-26 1-79 2-69	3 19-19 19-66 8 3-28 3-51 8 1-79 1-48 2 2-69 3-76	20-74 3-83 1-38 3-85
(iv) Micciniano.	3.59	4.34	4.78	4.77	4.93	5.38	6.25
otal costs per km	77-47	77-47 100-69 113-77 117-36 123-92 129-48 134-35	113-77	117-36	123-92	129-48	134-35

TAME NO. 9(7) GROWIN, OF PUBLIC SECTOR BUS TRANSPORT

(1960-61 to 1971-72)

Items	Uait	1920-61	1930-61 1965-66 1966-67 1968-69 1969-70 1970-71 1971-72	1966-67	1968-69	1969-70	1970-71	1971-72
(1).	(2)	6	€	(5)	(9)	(7)	(_B)	6)
1. (a) Existing under-	No.	28	29	32	32	32	32	32
(h) Reporting under-	No.	26	25	28	28	28	28	28
9. But rantes (operated) .	. 000.	i	12.5	13.7	17.6	19.5	21.75	23.50
		17.6	26.5	20.6	32.9	35.1	36.3	30-0
3. (a) Muses Owned	:	12.7	19.8	21.3	25.2	26.7	27.8	28.6
· named observed (a).	: 39	72.2	7.4.7	74.5	76.7	76.1	76.3	75.3
(a) Bus kms, run	Crores .	. 89.4	1.47.8	160.5	196.9	204.2	217-3	229.6
(b) Bus kmi. run (paid)	÷,	. 85.0	143.8	156-3	£-061	200.9	213.6	224.2
(a) Kmt/Bat(O)/Fotal	. 000	50-7	56.4	57.2	61.3	76.5	78.2	80.3
(b) km/But (O)/paid.	,000	49.7	55.3	55.7	.59.3	75.2	76-9	± 9,4
, (a) Seat capacity/Bus	Mo.	1,	51.0	20.0	51.0	51.0	56.0	57.0
(Pay Load)	• .	,		4	4.			

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		9	(4) (5)	(2)	9	ε	2	. :	
=	(3)	<u> </u>	Đ				0.64	41.4	
			١	37.7	39.8	38-8	0.04	0070	
(b) Seat kms/Bus (O) Lakhs	Lakhs	; :	7538	8025	8025 10042	10363	10363 12139	00/71	
(c) Total seat kms, oil. Crocca	Colca			*			233.45	533.45	4
ered.	1	0 906	206 0 356-9 389-2	389.2	462-5	475.0	475-0 300-03 180-7	180.7	
7. (a) Prisonger carried! Crores		202	180-3 182-7	182.7	183.5	177.9	7.001	,	
(h) Pussengers /Bus (O) 1000	, 000.	:	•			•		an 67 90-21	
		40.00	46.9	49.4	58 7	*.09			
	Abja	7.07	2				2	11	
o. (a) performed.*	;	,	9	62	38	58	3		
(b) Pasienger kms/seat	%	ł	3						
Km, offered (lead						1		16.9	
(1ctor)		140	19.74	* 12.7	. O. Tat 10.74* 12.74* 12 7** 12 7** 10 1	* 12.7	2		
9. Km; Passengers (lead		17.1	1						
Factory									
10. Quality of perfor-									
					188	213	777	. 39	
11134	N.	205	183	111					
(1) Bre 1x -down/ william 110)			-	91	14	13		
(9) testdents/Million	No.	24	18	2					
bus kins.									

^{*} Entimated.

**Assumed.*

(O) Strads for operated.

^{, , ,}

TABLE NO. 9(8)

(8)	57	4.	12708	533.45	90.21	71	16-91	239	
3	46	32.3	12.09	30-31. 80-9	8.88	73	29-30	12.4	
2) (0)	58	46.3	11499	503·14 202·4	81.33	71	16-16	254	
9	52	44.3	2600	103-98 177-0	19.46	7.5	18.72	156	,
(+)	38	45.8	6378	175-26	47.98	73	27.38	72	
6)	1956	49.8	2514	223.90	13-89	55	6.22	906	
(2)	No.	Lakhs	Crores	000,	Abja	%		n) No. No.	•
	6. (a) Carrying capacity per bus (pay load)	(b) Seatkms, per bus	(c) Totalicat kms. of	(b) Paneagerscarted (b) Paneagerper bus (O)	3. (a) Passenger-kms. per- Abja	(b) Paneuger-kms/seat kms.(0) (Load Factor.)	9. Average kms.travelled perpassenger (Lead Factor)	10.(a) Break-down/million) No. bus kms. (b) Accidents/Million No. nt 5 Kms.	

1	Passen- Trader-	get taking	Service under- takings	(9)	7.46.1 108.6 .854.7		13.8 14.2 13.9	24.2	•	972.5 132.7 140.7	21.9 1.3 21.0 26.2 24.8 26.0	0.9 1.3 1.0	0.0	
TABLE No. 9(9) TRANSPORT (1971-72)	aric series	District City-cum-		(9) (8)		339.9 176.3	10.7	9.00	20.0	192.2 536.7 2.13.6 97.		4	1.1	234
	OPERATION OF PUBLIC	COSA UNITED			(2)	1:	. ×	(c) % Distribution:	(i) Traffic	nance &	% of Distribution	(i) Tyres & Tubes	· ·	(iv) Baltefres %

THE STATE OF THE STATE OF

(1)	(2)	6	€	(3)	(6)	Maria I	(7) (8)
3, (a) Interest on capital	M Rs.	51.6	48.3	5.1	126-3 6-2		16.6 [42.9
	M. Rs. Paise	40.3	149·6 13·4	64.2	254.1	39.7	39-7 293-8. 13-1 12.6
al Allotine costs.	Paise	106-7 27-3	385-9 34-5	156.1	643.7	37.0	685.7 29.4
6, (a) Total costs?	M.R.	8.65	1460-4	666.6	2747-8	334.6	334.6 3082.4 110.7 132.2
7. (a) Total carnings (b) Truffééarning (c) Trafficearning	Mr. Rs Mr. Rs. Paire	509-3 485-9 125-3	1438-2 1438-2 128-4	668·1 645·7 124·4	2668-3 2569-8 126-6	334.9 324.7 107.4	334.9 3003.2 324.7 2894.5 107.4 (24.1
bus km. 8. (a) Total profit (b) Profitflus Km.	M. Rs.	8;87(±) (±)28;3	30.5	.5 0.43	·5 () 79·5 0·3 ()3·9		0.4 ()79.5

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TABLE No. 9 (10)

CAPITAL EMPLOYED EMPLOYMENT AND DIESEL CONSUMPTION IN PUBLIC SECTOR BUS TRANSPORT (1971-72)

45	(3)	55	9.15 9.9	74.9	481-2	16.2	
Under- takings	1	71	365-6 2236.1£ 52-2 79-9	75.0		ຄ.ສ	1
Passen- ger goods under- takings	3	2 .	365 52		4	•	-
Total passenger under- takings	(9)	21	1870 · 5 89 · 1	75.3	440,6	17.7	
City-cum- District Service Under- takings	<u>(5)</u>	~	431.7	73:5	74.2	9.2	-
District C Service Under-	(4)	Ξ	1012.4	72.8	303·5 27·6	21.8	
City. Service Under- takings	(6)		426.4	84.2	62.9	12.4	•
Unit	(3)	No.	Mr. Rs.	000 Rs.	M.R. M. Rs.	000 Rs.	•
Transmittens and the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the		1. No. of Recorting Un-	dertakings, 2. (a) Capital employed	(b) Capital employed per undertaking. (c) Capital employed per vehiele operated.	duringthe year.	per undertaking.	per vehilele operated.

(9) (9) (9) (9) (9)	66.9 118.0 62.3 228.1 44.8 292.2 10. 11.0 6.4 10. 10. 11.0 6.4 10. 10. 11.0 6.4 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	117 22	. 23	29.9 24.9 25.2 25.9 91.7 68.1
	(b) Employment Total), 0000 66.9 118,0 62, 10.7 21.1 mideraking (c) Employment per No. 113. 113. 114.0 21.1 (c) Employment per No. 113. 113. 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114.0 114	5. (a) Estimated Diesel? '000 R.L.		Kms.

SCapital employed in 1971-72 represents gross fixed assets excluding capital works in progres amountive depreciation plus or minus working capital 4.. the difference between current assets it represented capitaling investments and current assets it represented capitaling sestment by sources minus depreciation each year only. In carlier years however

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(F)	capital Net Net evenue Gapital emplo- yed	6
RANSPORT (Rs. in laklis)	Opene Return tional oncapital Ratio Net Current Revenue Expent Capital dintre emplo- Revenue yed	(1) (2) (3)
OAD TR.	serial venue	E(1)
SECTOR R	ployed ployed	(6)
TABLE NO. 9 (11) TABLE NO. 9 (11) JE AND EXPENDITURE OF INDIVIDUAL SECTOR ROAD TRANSPORT (Rs. in lakis	Total Interest Net Revenue Capital emp. Tregrent concapie (including in ployed of expent tal and tereston capital) in the expent tal and tereston capital in Rediture borrows	(3).
TABE	Interest on capi- tal and borrow- ings	(4)
CPENDIT	Total eurent expen- dlture	E
AND ES	T Total T Revr. on the dil	£ .
. 22,	1 0 7	, ,

305.95 1.22 1.09 0:19	1,56 1.04 0.17 0.83 1.07 0.14 1,34 1.52()0.30	1,32 0.88 0.32	1667,16 1.00 1.030.32	362.27 1.07 2,51 (-)0.92
77.	1,56 0.83 1,34	1,92	1.00	1.07
305.95	1076.86 292.04£ 522.87	37.00	1,667,16	,
47,92	178.49 41.80 ()136.65	11.74	\$17.87	(-)332.03
AATTS. Abme-	43.534 174.56 107.03 10.26 DESTÚT Bem 1.132.60.1755.78 10.26 PATEL PATEL 21.65	Drat Defail . 619.30 1002 70 2.21	TSID, Mad no. 170. 69, 104-23.	CSTC1 2 Cale 22 cg no 105,36

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9.				TABLE D	TABLE No. 9(11) -Conid	ntd*	\$	
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ofS	o D'unet Semees	,		,				*
	BSR.f.C, Patna 703 44	44 EC1		846.91 57.00	240.64	887,211	0,89	-
	GSRTC, Ah- ur-dabad . 1155 02	f155 02		121,49	1689 47	2768,75	1.50	_
l.D.)	MPSRIC,Bat- raginh 1231.53 1401.28 71.05	1231.53	1401.28	71.05	336.29	983,52	1.30	-
173	MSRIC,Bom-							

ragruli 1231.53 1401.28 71.05	1231.53	1401.28	71.05	336.29	983.52 1.30 1.09 0.34	1.30	1.09	0.34
MSRIC, Bom- 5917,24 6038.81 102.58	5917.2	1 6038.81	102.58	1929,21	3244.04 1.82	1.82	1.02	0.5
RSRTC, Inipur 290.33	290.33	284.43 20,43	20,43	79.44	331.63	0.88	96.0	0,2
PRTC,Patiala* 228.16	, 228.15		19.31	80.04	262,29		0.33	0,3
HCTS,Chandi-	1102 38		869.47 50.01	450 05	703.79	03.79 1.57 0.79	0.79	
5TSO, Cu rick 313-80	313-80		303.76 19 46	103.03	319,39	0.97	0,97	
PGTS, Chands. 635 20	635 20		520.72 20,94	212,28	571.52			
ORTC, Ber- hampur , 180 86	180 86		ł	68.43	104.81			9 0
STS, A & N Islands** . 8,59	3,59		8 57 0 30	2 66	6.56††		1.31 1.00 04	0

Track No. 9 (11) -Conid.

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traines k nem Tr.C. Hve		, 1	67 67	798.60	1163.01	2,27	1.01	69.0
derabad - 1642-11		2671.40 07.00		925.82	936.12	1,48	1.07	0.24
wandrim 1303.73 1484.90 /4.33	1303.73	148+	4.35		1	06	16.0	0.38
	, 2635,65	2508.79 122.62	122.62	846,56	2217.73	24:1		-
Goods-aim Pas-							717	. 60
ASMSRTC,	963.99	370.55	23,28	(-)19.67	411,3611	0.04	٠ -	20,01-11-1
Gathatt.		397.40		93.61	290,50††	1.38	0.99	0.99 0.32
HGT, Simla		305-17		15,23	54.70	1.80	1.15	1,15 0.20
Mindi		114.11	, , , , , , , , , , , , , , , , , , ,	11.0	153,13	0.27~		1.28 0.001
plial**	41.83	53.44	3.00		0.0(-)0.0 - 1.20(-)0.03	70.07	1,200	10.03
NBSTC, Cooch-	h* 176.66	211.79	10.00	96.±	182-0150-0-37		9	0.0
3	2119.56	2119.56 1893.03	93.00	654:21	2249.99			
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(€)	0.08	minus utrent nly.
9	J.	ogress weene
	1 4.	in pr geben sch yo
(6) (7) (8) (9)	83.57 0.77 1.46 ()0.03	* Relates to the year 1959-70. ** Relates to the year 1970-71. \$Capital Investment. \$Capital Emrloyed in 1971-72 represents gross fixed assets excluding empiral works in progressminus. Scapital Emrloyed in 1971-72 represents gross fixed assets excluding empiral works in progressminus assets, loant and Capital investment by sources minus opereciation each year only.
		Pital
(6)	3.57	ng ca the the
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5	93.0	19-70 19-70 17-72 11-72 recia
(2) (3) (1)	12,	year year id(19 in 197 e dep
3	40	the vesto stract stract lativ
	CRTC1, Cal. 64,21 93.63 5.81 (-)6.55	* Relates to the year 1969-70, ** Relates to the year 1970-71. ## The Capital Investment. ## Scapital Envisament. ## Scapital Envisor of the 1971-72 cepter Capital Envisor of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter of the 1971-72 cepter
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TABLE NO. 9 (12)

CONSTRUCTION OF INDIVIDUAL PUBLIC SECTOR ROAD TRANSPORT UNDERTAKINGS TO NATIONAL INCOME

(1971-72)

(In '000 Rs.)

Type of Service/Undertaking] t	Total Expendi- ture on ersonnel	Current Expendi- ture @	Net Profit	Total contribu- tion
(1)		(2)	(3)	(4)	(5)
A. PASSENGER TRANSPO	RT				
1 . Gity Services					179 91
TST, Madras **		45,674	41,692	()5,086	82,280
GSTC, Calcutta .		41,417	23,760	()58,415	6,762
AMTS, Ahmedabad.		18,261	6,928	()3,249	21,940
BESTU, Bombay .		85,187	32,006	()7,318	109,935
PMTS, Poona .		10,402	4,957	()1,650	13,709
DTC, Delhi .		48,498	27,424	36,340	39,582
CTU, Chandigarh .		1,557	412	563	32,522
2. District Services				1	
BSRTG, Patna		26,189	21,725	5,347	42,567
GSRTC, Ahmedabad		106,171	122,788	17,809	246,76
MPSRTG, Bairagarh		33,423	. 36,104	11,975	57,552
MSRTC, Bombay		152,851	173,030	4. 1,257	313,624
PRTG, Patiala** .		5,145	4,247	2,686	12,078
HGTS, Chandigarh		23,220	14,525	. 23,291	61,036
STSO, Guttack .		7,655	6,825	- 804	15,284
PGTS, Chandigarh**	•	15,298	4,865	11,548	31,711

(1)	(2)	(3)	(4)	(5)
RSRTC, Jaipur	7,	686	4,949	590	13,225
SIS, A. & N Islandst .		179	84	2	265
ORTG, Berhampur	4,	597	2,494	3,372	10,463
3. City and District Services					
APSRTC, Hyderabad .	72	,410	68,699	()2,975	138,134
KSRTC, Trivandrum .	54	,301	31,683	10,223	75,761
My SRTC, Bangalore .	68,	011	63,698	14,686	164,425
B. PASSENGER-CUM-GOOD	S TRA	NSPO	RT		
NBSTC Cooch,-Behar***	9	,059	2,013	()3,513	7,559
MKRTC, Mandi	3,	466	2,131	()1,534	4,063
A& MSRTG, Gauhati**	11	,918	4,838	()10,726	6,030
UPSRTC, Lucknow** .	71	,015	23,504	22,653	117,172
HGT, Simla***	. 8	,527	3,954	()5,669	6,812
MS TD, Imphal***.	. 2	085	673	(-)1,161	1,597
J&KGTU, Srinagar **	. 9	,661	9,336	348	19,365
G. GOODS TRANSPORT					
CRTC, Calcutta .	. 2	,592	1,586	()2,942	1,236

^{**}Relates to the year 1969-70.

^{***}Relates to the year 1970-71.

[†]Relates to the year 1968-69.

SNet profits-Gross Revenue-Total cost.

^{*}Expenditure on personnelineludes psyments made to allelasses of employees in the form of wages, salaries, dearness allowances, provident fund contribution, special allowances and for welfare and superannustion benefits.

[@]Gurrent expenditureincludes rents, rates, taxes, insurance-cost of departmental vehicles, general contingencies, miscellaneous expenditure and interest on capital.

SECTION 10: INLAND WATER TRANSPORT

INLAND WATER TRANSPORT

Inland Waterways are taken to include rivers, canals and lakes as well as harbour waters and creeks. The development of more rapid transport facilities in India reduced the popularity of this mode of transport for long distance traffle. In a number of regions in the country uncatered by rail-road, the I. W. T. Undertakings are the only means of transportation. Some undertakings carry lighterage work in Calcutta and Bombay harbours. They will assume a greater role in linking the world ports with the interior regions of the country as LASHER ships carry more and more of world trade in future.

The Inland Waterways, excluding the harbour waters and creeks, are at present under the regulation and control of State Governments, none of them declared as a national waterway for development by Central Government. However, besides the undertakings operating in creeks and harbour, which are resistered with the Merchant Marine Department of the Central Government, the largest single IWT undertaking, namely the Central In land Water Transport Corporation is a public sector undertaking under the Central Government.

The organised sector is relatively small in IWT, and undertakings in that sector alone may be said to ply modern vessels-dumb as well as self-driven. The private undertakings in this sector are generally captive undertakings of construction undertakings. Even the IWT organisation in the public sector, viz. CIWTC, is not solely meant for running IWT services, it manages a dock-yard and constructs bus-bodies also.

A Committee under the Chairmanship of Justice Bhagwati was appointed by the Government of India with a view to develop the inland water transport system in the country. It has submitted its report and made 'number of recommendations for the future development of inland water transport in the country.

THE L.W.T. DIRECTORATE

The I.W.T. Directorate wasses up in March, 1965 by the Government of India in the Ministry of Shipping and Transport. This Directorate is charged with the following functions:

- (a) to study the immediate long-term transport requirements of the country with a view to co-ordinate inland water transport with other mode;
 - (b) tostudy the cristing waterways and formulate schemes for improve-
 - (c) to prepare technical reports on design of waterway and connected struc-
 - (d) to formulate proposals for extension of navigability of inland waterways for immediate and short term implementation having regard to ways for immediate and short term implementation having regard availability of water under Irrigation and Power multipurpose project (in consultation with the Central Water and Power Commission) including any special project to be undertaken purely for navigation;
 - (e) to investmate and prepare project reports, design and estimates after carrying out necessary structural and hydraulic model tritisfor the above ry consultation and coordination with the State Chief Engineers core cerned and the Central Water and Power Commission;
 - (f) to study modern development in all aspects such as improved design of craft, naturational ads, terminal facilities and convervancy, necessary research would also be carried out:
 - (g) to lraw up standards for classification of waterways, size of locks and clearance under bridres etc.:
 - (b) to set up suitable training establishments for training of :
 - (1) diesel machines
 - (2) deckandengine room personnel; and
 - (3) conservancy and technical stoff to render technical advice to the Central and State Governments on inland water transport matters.

The Directorate is also responsible for ensuring proper coordination with the Central Water and Power Commission and the Army and Naval Headquare ters.

Table No. 10(1)
NAVIGABLE WATER-WAYS OF INDIA

				(In Kil	ometres)
State/Union Territory	~~~	*******	Rivers	Canals	Total
(6)			(2)	(3)	(4)
Andhra Pradesh		•	309	1,690	1,999
Arsam	4		1,988		1,983
lillar			937	325	1,262
God Carlotte			317	25	342
Gularat			286		286
Kerala 2			840	708	1,548
Alabarashtra			501		501
Mysore			284	160	444
Drisea			761	224	985
Tamil Nadu				216	216
Jttar Pradesh			2,268	173	2,441
Nest Bengal	•	•	1,555	782	2,337
Tor	ለቴ		10,401	4,303	14,944

Source : Inland Water Transport Directorate, Ministry of Shipping and Transport, Govt. of India.

TABLE No. 10(2)

NO. AND TYPE OF INLAND WATER VESSELS REGISTERED WITH THE STATE AND CENTRAL AUTHORITIES

State and type of vessels	Number	Engine Power	Cargo carry- ing capacity (Toanet)	Passenger Carrying capacity (No.)
(1)	(2)	(3)	(4)	(5)
Audhra Pradesh*				,
1. Self-propelled *				
(a) Cargo (b) Pas-enger } :	158	10 to 150	HP 3 to 80	20 to 74
2. Tugs & Pushers .			. ,	-
3. Non-Self propelled	:			
(a) Du nb barges .	30	-	.1.	Ξ
(b) Damb tankers				
(c) Dumb ilats .	_			-
(d) Boats				
1, (a) Country Boats				44.
(b) Others		-		_
Assam				
1. Salf-propelled:				
(a) Cargo (b) Passenger } •	153	60 to 1500	HP 6 to 570	•••
L. Tage & Pashers.	I	1500 BHP	12	مب
3. Non-self proxiled	:			
(a) Dumb barges .		-	- `	ميو
(b) Dumb tankers				
(c) Dumb flats	****		• •	مسد
(d) Boats				-

^{*}As to 31-3-1972.

Table No. 10(2) - Contd.

- 				
	(2)	(3)	(4)	(5)
4: (a) Country Boats (b) Others	89	,	162 to 700	-
Bihar				
1. Self-propelled :			,	
(a) Cargo			<u></u> '	
(b) Passenger	18	***	<u></u>	
2. Tugs & Pushers .	. 4	100 to 300 BHP	; -	
3. Non-self propelled:				
(a) Dumb barges . (b) Dumb tankers				
(c) Dumb flats				~
(d) Boats . "	, -			
4. (a) Country Boats	-			
(b) Others	8		130 each	
Gujarat		•		
(a) Country Boats	2,154	***	· .	
Kerala .		_		•
1. Self-propilled :	• '	;		
(a) Cargo (d) Passeiger	64 2	1 to 82HP	15 to 80	62 to 158
· 2. Tugs and pushers .			<u></u> .,	
3. Non self propelled:		~	•	
(a) Dunb barges	~-	٠	٠ ــــ	
(b) Dunb tankers	~~ `	· -	· - ,	
(c) Dunb flats		- 122		
(d) Boxs	1-/			ا بند از دیا

TABLE	No.	2)-Conid.
-------	-----	-----------

(1)	(2)	(3)	(1)	(5) /
1. (a) Country Boats (b) Others .	• •	***	p. 6 \$	•••
Maharashtra				•
1. Self Propelled:				*
(a) Barges (b) Boats (c) Launches (d) Others	963	***	 	***
2. Tugs and pushers			• 1	4.0
3. Non self Propelled: (a) Dumb barges. (b) Dumb tankers (c) Dumb flats.	58 —	=	· , '	; -
4. Fishing boats .	2,154	***	*** ;	
Mysore			ì	
t. Self propilled: (a) Cargo (b) Passenger .	<u> </u>	 1045 HP	- 45 c	 o 35
2. Tugs and pushers .		-		
3. Non-self propelled: (a) Dumb barges. (b) Dumb tankers (c) Dumb flats. (d) Others.	<u>-</u> -	-	1 1	<u> </u>
4. (a) Country Boats (b) Others	628		3 to 40	سبر ع

TABLE No. 10(2) - Cortd.

(1)	(2)	(1)	(1)	(5)
Orless)		
1. Self-promiled.		}	•	
(a) Crigo (b) Passroger	121	10 to 50 HP 1: 5 to 20 HP	0 to 15	20 to 200
2. Eurs and purhers .	•	50 to 100 HP		•••
3. Non-selfpr piled:				
(a) Dumb barges ,	-	. 	•••	
(b) Dumb unbers	-			
(c) Dumb flats .			-	
(d) Other	-			
4. (a) Coun'ry Poats	3 10		2 to 80	-
(b) Other	20		1 to 2	-
Pa ab & Reyann				
1. Salfpropelled				
(a) Clarce			****	-
(b) Paverger .	3		-	
2. Turn and purhers .			-	,
3. Non-self propelled:				
(a) Duras barges .			****	
(b) Dumb tankers			****	
(c) Dunti flate -		-		
(d) Others · ·				

(1)	(2)	(3)	(4)	(5)
4. (a) Country Boats (b) Others	2	· _		
Tamil Nada				
1. Self-propelled: (a) Cargo (b) Passenger	_			`, ~~. ; ~~.
2. Tugs and pushers.	_			~
3. Non-selfpropelled: (a) Dumb barges (b) Dumb tankers (c) Dumb flats (d) Others 4. (a) Country Boats (b) Others	= = 1,106	-		. 1111
West Bengal Mechanised vessels	631		1	
Gon, Daman & Diu 1. Selfpropplied:	031	•••	;	٠.
(a) Gargo (b) Passenger		<i>:</i> .	•••	*.
2. Tugs & Phylore . }	IV5	•	•••	**5
Andaman & Nicobar Islands 1. Self-propelled: (a) Cargo (b) Passenger		 2 34 1 HP		 S. 156
Tugs & Pushers .				

(1)	(2)	(3)	(1)	(5)
4. Non-tell propelled :	Work and Workship . Group anger	range tree attentions	M. M	
(a) Durnb harnes .				
(b) Durab tackers		-		
(e) Dunb flats .		-	-	
(d) Others				-
4. (a) Country Boots .				
(b) Others				
CIWTC (Calcutta)*	_			
1. Self-propelled:				
(a) Steamers.	20 91	25 to 171	to 1019	
(b) Launches	1 5 17	to 28 3		
	} ?	ar i	to 121	
	18 65	DHP }	***	
7 Thomas and				
2. Tugs and pushers .		to 56)		
	7 31.		to 140	
S. Non-self propelled :				
(a) Damb barret	40	414		
(b) Dumb tankers	49	11 to		
(c) Dump flats	8 74		0 777@	
(d) Others	8	- 2711	01002	****
and sounds .	u		-	

^{*} As on 31-3-73,

^{**} Refers to Registered tonnage.

[@] Capacity is in terms of thousand litres.

TABLE No. 10(3)

PASSENGER SERVICES OPERATIONAL DETAILS OF THE UNDER TAKINGS/NAVIGATION COMPANIES—(1972-73)

Undertaking/ Navigation Company	Route Operated	Period in which operated	Route No. of length trips- (in sche- (kms) duled
(1)	(2)	(3)	(4) (5)
1. CIWTC	1. Calcutta-Bangla Desh	1-4-72 to	- 896
•	2. Calcutta-Sagar	31-3-73 Do.	· 129
	1. Agacaim-Cortalim 2. Panaji—Britina 3. Panaji—Picdade—Naro 4. Panaji—Aklona 5. Panaji—Betim—Verem 6. Old Goa—Picdade 7. Rabander—Chorao 8. Dona Paula—Mormugae 9. Glas Dox Cyires—Betim 10. Colvale—Macasan 11. Siolim—Chopadem	do. do. do. do. do. do. do.	52 52 42 45 42 420 102
3. Kerala State Road Transport Corporation, Wate Transport Section.	2. Mattaucherry—Ernakula 3. Ernakulam—Mattauche (via customs) 4. Ernakulam—Mattauche (via Terminus) 5. Mattaucherry—Ernakula (via customs) 6. Mattaucherry—Ernakula (via Terminus) 7. Mattaucherry—Ernakula	31-3-71 31-3-71 am do. ary do. am do. am do. am do.	27: 34, 7, 5, 5
	(via Customs & Terminu 8. Mattancherry—Termini	ıs)	3

Tante No. 10 (3)-Contd.

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			
(2)	(3)	(4)	(5)
9. Treminus -Martanete	rry do.	• •	40
10. Terminar - Munikkap		***	3
Tem			. 2
12. Marukkaradam Hish	1~3~70		36
Court.	31-4-71		
13. High Court—Murukki	u- do.	•••	36
14. High Court-Balchetty	do.		40
15. Balchatty-High Court			-10
		•••	10
Ammendra Karain I. flarari - Maladevpur	1-4-70	16	1788(0)
Singh; Adampur 2. Sultangari Aguni-	1 tn	20	1006@
What hand,	31-3-71	***	
3. Parna (lianeghat)		•••	•••
5. Shit Krishang I. Bombay-Elephanta	do.	13	
· Civille Linnary of the land Transforms	de.	26	***
Service. 3. Bombay-Mora	de.	- 9	***
4. Rancot Dataon	do.	20	
J. Bombay-Rewaj	do.	19	
6. Rombay-Dharmar	do.	84	***
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	****	• •	

[@] As on 31-3-1970.

Undertaking/ Navigation Company	Route Operated		No. of passen gres carried (in lakles)	· lare	Ne. of fleet opera-
(1)	(2)	(6)	(7)	(B)	(9)
1. CIWTC	West Bengal Passenger Ferry— i. Calcutta—Bangla Desh 2. Calcutta—Sagar	•••	Neg. 0.02	0.50 2.03	
2. Gort. of Goa, Daman & Diu, Rivet Navigation Deptt.	1. Agacaim—Cortalim 2. Panaji—Britina 3. Panaji—Britina 4. Panaji—Aldona 5. Panaji—Betim—Verem 6. Old Goa—Piedade 7. Rabander—Chorao 8. Dona Paula—Mormuz 9. Gias Dox Cyires—Betir 10. Colvale—Macana 11. Siolim—Chopadem	55 7 42 154 81 40	0.83 0.44 0.30 3.42 1.44 1.46 32.10	### ##################################	32221111112112
3. Kerala State Rand Transport Corporation, Water Transport Section, Kerala.	i. Ernakulam—Mattanch. 2. Mattancherry—Ernaku. 3. Ernakulam—Mattanch. (via cuttoms) 4. Ernakulam—Mattanch. (via Terminus) 5. Mattancherry—Ernaku. (via Customs) 6. Mattancherry—Ernaku. (via Terminus) 7. Mattancherry—Terminus) 8. Mattancherry—Terminus	lam lam lam lam		19 9.3	9 12

0. 港湾。	(2)	(6)	(7)	(8)	(9)
	9. Terminus—Mattancherry 10. Terminus—Marukkapadam. 11. Murukkupadam—Terminu 12. Murukkupadam—High Gourt. 13. High Court—Murukkupadam. 14. High Court—Balghatty 15. Balghatty—High Court	::: :::		.19 9.39) 12
4. Amarendra Narain Singli, Adampur	Barari—Mahadevpur Sultanganj—Aguania— Bhatkhand Patna (Bansghat)—Pahelza	1,390 980	•••	1.07 	•••
5. Shri Krishana Motor Launch Service.	1. Bombay—Elephanta 2. Jaigad—Kurdunsa 3. Bombay—Mora 4. Bancot—Dasgaon 5. Bombay—Rewaj 6. Bombay—Dharmtar		0.17 0.33 1.15 0.32 1.88 0.04	$0.41 \\ 0.99$	12
	•		3.89	4,92	

[@] As on 31-3-1970.

^{*} Figures rolate to 1969-70.

TABLE No. 10(4)

KERALA STATE ROAD TRANSPORT CORPORATION—IN I WINCarrying capacity of Passenger vessels (1965-66 to 1970—71)

Name of vessel				rying capac ncial year (
				1965-66	1968-69	1969-70	1970-7
(1)			(2)	(3)	(4)	(5)
Himalaya £	•			176			
Samuel .				3 5	27	27	27
President .				164	164	164	164
Komala Kum	ari.			180	180	180	180
Olympia .				120	126	126	125
Kanya Kuma	ri,			165	165	165	.165
Kerala Kuma	ri.		•	160	160	160	- 160
Ganga .	•			171	171	171	171
Yamuna .				137	136	136	/137-
Kalrali .	•			132	126	126	132
Lucky (B)				126	•		` •
Tharangini				_	128	128	128
Gayathri* .					136	136	136
Jalaja (comm 17-8-69).	aissio	ned	on		_	160	160
ALL VESSELS				1,566	1,519	1,679	1,685

[£] Was sold in 1968-69.

-Administration Report of Kerala State Road Transport Corpora-

B) Was sold in 1967-68.

^{*}New boat built in 1967-68.

Table No. 10(5)

Passenger traffic and carnings therefrom (1965-66 to 1970-71)

Item	Unit	1965-66	1953-69	1960-70	1973-71
(i)	(2)	(3)	(4)	(5)	(G)
No. of passengers carried .	Lakhs	80.73	81-29	83-20	81-19
Panengers revenue	Rs. Lakhs	7.74	9.45	9.38	9.39
Other revenue	**	1.04	0.92	0.94	0.13
Intal revenue	23	8.78	10.37	10-32	9.52
Average revenue per passe	n- Paise	9.6	11.6	11.3	11.3

Series -- Administration Report of Korala State Road Transport Corpora-

Tarko Services Operational Details of the Undertakings/Navigation Companies

Undertakingl Route Operated Navigation Company	Route		Route length (Kin.)	Nature of Cargo carried	Total cargo moved (tonnes	Total No. of I Preight vessels pe charged used (Rs. in	No. of vessels used		No. of trips perfor- med
	:	` .			ln lnkhs)	lakhs)		(In Rs.)	
3		(2)	(3)	(+)	(3)	(9)	£	(0)	(6)
ASSAM &		WEST BENGAL							
1. CHYTC									
(a) IAssam	1. Jog	1. Jogighopa-Gauhati	1+1	1. Rice	0.007	0.16		0.16	:
Zone	Dazar.			2. Wheat	0.031	0.69		0.16	:
-	S. Ga	2. Gauhati Bazar-	1393	Tea	0.00	0.00		0.11	į
	J. Jok	3. Jogichopa-Tista- mukhbad (B. Desh).	326	Wheat	00000	0.20		0.11	:
	4. Jogigh uraba Bazar	4. Jogighopa-Bahad- urabad Ghat. Bazar	25.4	Wheat	0.031	1.04	62 	0.13	. : ·
٠,	 288	Guthati-Bazar Ghat Narayanganj (B. Desh)•	130	Timber	0,003	0.31		0.14	• •
	o Dig	6, Dhubri Ghat- Dacca(B.Desh).	1516	1516 Timber	0.015	1:33	<u> </u>	. 90.0	

1			: :	:	: :	:	:	
	0.08	0.19 · · · 0.66 0.22	0.00	0.07	0.16	;	: :	
				_g				_
	0.07	0.34	0.36	16.57	13.81	ć	78.87	; ;
	0.001	0.060 0.005 0.151	0.080	0.301	0.115	•	0.143	2
	1. Match Box 2. Jute	I. Steel Plates 2. Heavies Rape Seeds/	Fertilisers Salt Wheat	Coal	759 General Cargo 759 fute		1. Furnace 0.143 Oil/Diesel	Z. Frein Water
3	11.89	103	68	778	759 (1	1
(2)	7. Dhubris Ghat- Galeutta	I. Calculia-Haldia	2. Sasal landar Carlo cutta. 3. Calcutta-Rishra. 4. Calcutta-Gauhati	Bazar. 5. Calcutta-Dacca	(b. Desn). 6. Calcutta-Narayan- ganj (B. Desh).	B. Lighterage Traile at Calcutts Port	(a) Calcutta-Calcu-	
		(b) Caleu- tra Zono		•			,	

TABLE No. 10 (6)-Contd.

-	(3)	€	(2.)	à	5	3		E
(b) KP/KDR Mor- tings—Shalimar	i i	1	1. Machinery 0.496 2. Timber 0.092 3. General 0.594 Cargo	0.496 0.092 0.594	2.09		:::	:::
			Total.	2.157	57.57			
2. GOA (a) Mis. Salenc.ui @ N (b) icholini (Gos) Minlan Minlan Industries	Mormugao 42 Iron Or. Hathour			14.45	1	10	1	3397
S. @ Saemansot I. Dempo t.	Mormugae Harboui	κn	35 MineralOre	3.5.	I	24	ı	31272
Ms. 1. Pale-Mormugao Chowguie@ 2.Sirigao-Mormugao & Co. 3. Nirabag-Mormu- Pyt. Lid. gao fao gao	-	64 40 48	Iron Orc	16.19	1	738	1	4504 7 7 7

(1)	, (2)	(3)	(4)	(3)	(9)	(7)	(8)	(6)
	5. Sonatherg.Mor- mugao 6. Suria-Mormugao 7. Virdi:Mormugao 8. Sirsaim-Mormugao 9. Vamis-Mormugao	56 56 56 56	Iron ore	16,19	. 1	28	, : :	4504
(d) TM/S. Sera(@) Pvt. Ltd.		,	40 Iron Ore	5.13	:		ŧ	ŧ
	2. Virdi Bunder do.	41	41 Iron Orc	1.25	:		ŧ	:
r	3. Amono Bunder do.	37	37 Iron Ore Sub-Total	13 63	<u>:</u> .	33	: .	: •
	t. Ore exported for Third Particle		Total .	0 47	<u> </u>		i	• '
(e) Ms/. Mine Kushald Lid	Mune Heads Mörmugao 47—30 Iron Ore Munialdas & Bros. Pvt.	7-38	Iron Ore	2.63	17.08	ဗ	:	787

	1	No. 10 (6) - Confu.	onta.		-		1
		€	3	(6) (7)	3	(8)	€
(1) (2)	6				:		:
Timble@ Usgao Sanvor	36	38 Mineral Ore \$.00	₩.00	1	0.	į	:
Pyt. Ltd. River Landing	99-01	40-56 MineralOil	i	12.48	9	i	i
ar Counts God Harbot Carious Ida Various Ida		40 Iron Ore	7.50 54.43	5:1•43	13	0.18	:
Shahari. Mandavi-upioships Dock & anchorage in th Steel Co. and steam. Pvt. Ltd. mid steam.					ć		
- 05r	30 8	30 SeaSand 15 Cement	2.47	3.43	O 19	: 1	<u>:</u>
Co., Ltd. Steamer Anchor		TOTAL Z.	3.39 4.97	4.97		į	
Sikka-Sikka Island	20	20 Sea Sand	2.24	15.53	3 10	0.30	1 3

(6) Contd	(6)	1. Ore 2.300, 9.90. 1. 1. 2. General 1:00 8.00 J
TANCE No.10 (6)	(3)	
	(2)	lura National August 1997 National August 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second 1997 Second
	ε	Mattern Mis. Kar Malabu S. Mala Court ghtern Co.

Akelates to as on 11-3-1972. Corresels for movement of their own cargo.

TABLE No 10(7)

CHARTERING, BY CIWTG CALCUTTA (1972-73)

Name of vessels chartered	Party to whom char- tered	No. of vessels chartered	Monthly charter hire per vessel (In Rs.)	charter
(1)	(2)	(3)	(⁴)	(5)
1. Chartered Ferry (Shali- mar—Garden Reach and vice versa).	SE Railway	. ,	***	4-29
2 Chartered Terry (Rama- kristapur—T T. Sheds and vice versa).	Calcutta Port Commissio- ners		***	0 68
3. Charterederuises .				0 30
4. Miscellaneous Charter	•		•	0.30
TOTAL	•			7 60

[@]The number of vessels chartered and charter hire not available.

TABLE No. 10(8)

AVERAGE DAILY EMPLOYMENT AND ANNUAL WAGE BILL OF CHUT CORPORATION (1958-73)

Category	Year	Number of workers employed	Average No. of days of employ- ment in a month	Total salaries and wage paid in a year (Rs. in Lakhs)
in the second	(2)	(3)	(4)	(5)
Skilled	- 1968-69 1969-76 1970-71 1971-72 1972-73	410 370 363 391 399	31 31 33 31	0·69 1·11 0·69 0·97
Semi-skilled	. 1968-69 1969-70 1970-71 1971-72 1972-73	81 166 174 156 179	31 31 31 31 31	0.07 0.21 0.33 0.28 0.59
Unskilled	1968-69 1969-70 1970-71 1971-72 1972-73	1,463 1,081 1,165 1,111 1,172	31 31 31 31	1·10 1·85 2·00 1·69 5·42
TOTAL	1968-69 1969-70 1970-71 1971-72 1972-73	1,954 1,617 1,702 1,658 1,750	31 , 31 , 31 , 31 , 31	1.86 3.17 3.02 2.94 7.74

Table No. 10(9)

KERALA STATE ROAD TRANSPORT CORPORATION
EMPLOYMENT IN I.W.T. PASSENGER TRANSPORT
(1969-71)

Category	employ	anent staff sycd as on t March		Temporary staff employed as on 31st March			Total staff em- ployed as on 31st March	
	1969	1970	1971	1969	1970	1971	1969	1970 1971
(1)	(2)	(3)	(4)	(5)	(G)	(7)	(8)	(9) (10)
Higher Division Officer		1	1	1			1	
Running Staff								, , , , , ,
(a) Supervisory	, 2	2	2				2	2 🔆 💤
(b) Non-super-	141	160	160	54	9	34	195	193 194
Mechanicalstaff								100
(a) Supervisory	, 1	1					1	1 2 34
(b) Non-super- visory.	41	27	29	8		19	49	46 , 48
MinIsterial Staff	ľ			•				
(a) Supervisor		1 1	_	. 1	1	2	2	2 2
(b) Non-super- visory.		0 1	0 16	o _		-	10	10. , 10
4.5								1 3 1 1 1 1 1 1
TOTAL	. 196	5 20	2 20	3 64	53	53	260	255. 2 ⁵⁸ .

Source.—Administration Report of Kerala State Road Transport Corperation.

TABLE No. 10(10) **

INCOME AND EXPENDITURE OF CENTRAL INLAND WATER TRANSPORT CORPORATION CALCUTTA

(1968-69 to 1971-72)

	on to 10	11-12)	(Rs in	Lakhs)
i A Items	1968-69	1969-70	1970-71	1971-72
(1)	(2)	(3)	(4)	(5)
A. Income		-		
Calcutta Lighterage, Warehous-	. ,	- 05 50	56-57	67·B4
Rajabagan Dockyard Kulpi Workshop Assam inland river services	83-69 11-47	8.92	20.37	146-44 26-73
Rent	0.85		3-81	7-87
Assam Sundarban conservancy	9 85	10.47	8.83	9.86
grant.	2.06	1.38	1.36	1.24
Subsidy for Assam Loss Profit on sale/climination of Fi- xed assets.	39 00	29·39 6·57	22.90	22.00
Miscellancous	5-17	9.26	12 29	21.01
Total Income	179-80	184.74	243-27	308-82
	r			
Salaries, wages, P.T. Stores, spare parts Power and fuel Rent Repairs to buildings, dockslip-	134.93 6.20 13.85 19.50	126.73 5.16 14.00 9.58	144·94 6·02 12·53 10·23	184-09 8-84 11-93 10-38
Ways.	1.70	18.1	2.30	2.30
Repairs to machinery Repairs to vessels Other repairs	2·12 17·89 0·65	3·32 24·67	3·60 28·37	6·45 '
insurance	1.50	1.18	1.12	1-17
Rates and Taxes	1-35	1·50 1·54	1.63	6·39 1·67 -
Managing Director expenses/ Directors fees.	0.27	0 30	0.28	0.27
Depreciation	66.72	70.47	81.95	78-48
discellaneous expenses	13.22	12.01	16-02	17.96
	27.98	29.62	40-95	56.39
TOTAL EXPENDITURE	297.94	301-89	351-B3 A	•

10-2 M of S & T

TABLE No. 10(11)

(as on 31-3-1972)

(Rs. in lakhs)

Particule	ırs		lst April 971 •	trans- fers during the ar ended 1-3-72	Sales/ climi- nations/ trans- fers during the year ended 31-3-72	3	up to 1-3-71	Less adjust ment of depre- ciation sless elimi- nations
(1)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(2)	(3)	(4)	(5)	(6)	
Steamers, Laune Barges, ponto oys & Lights,	ons, B		256.22	1.78	3 2.34	255.66	34.61	0.20
Land			12.44		0,10	12.34	· •,	و منح
Buildings, Dock	s, slip	way:	21.76	0.42	0.03	22.15	3.69	10.0
Machinery Plan	t & To	ools	43.57	2.48	0.31	45.74	8.59	0.12
nee & Fix	ture		2.74	0.40	_	3.14	0.59	4 - C. S. S. S. S.
** ntor Vehicles			2.10	1.05	Neg.	3,15	0.69	د ماورد. د مسوران د مسوران
Live stock .	•	٠	Neg.	-		Neg		آن کا دارد. است کا دارد چوم جای کا
TOTAL .			338.83	6.1	3 2.78	342.1	8 48.5	7. 0.33.

Explanations :-

Col. 10 = Col.(5) - Col.(9)

Col. 5=Col(2)+Col(3)-Col(4)

Col. 9=Col.(6)-Col.(7)+Col.(8)

TABLE No 10 (11)-Contd.

Particulars	Depreciation charged for the Year ended \$1-3-72	Depreciation upto \$1-3-72	Net Valut as on 31-3-72	Net Value as on 31-3-71
(1)	(8)	(9)	(10)	(11)
Steamers, Launches, Flats, Barges, Pontoons, Buoys & Lights	12.40	46.81	208.85	221.62
Land		,,,,,,	12.34	12.44
Buildings, Docks, Slipways etc.,	1.09	4.78	17.37	18.07
Machinery Plant and tools .	3.82	12.29	33,45	34.97
Furniture and fixtures	0.31	1.29	1.85	1.76
Motor Vehicles	0.34	1.03	2.12	1.41
Livestock		_}	Neg.	Neg.
TOTAL	17.96	66.20	275,98	290.27

Source : Central Inland Water Transport Corporation, Calcutta.

TABLE No. 10(12)

INCOME AND EXPENDITURE OF INLAND WATER TRANSPORT SECTION KERALA STATE ROAD TRANSPORT CORPORATION

(1965-66 to 1970-71)

		(Rs. in Laklıs)			
Item	1965-66	1968-69	1969-70	1970-71	
(1)	(2)	(3)	(4)	(5)	
Income :					
I Traffic Revenuo					
(1) Revenue from Passengers	7.99	9.47	9.38	9.39	
Sub-total (operating revenue)	7.99	9,47	9,38	9.39	
II Non-operating revenue :					
(1) Rentete.	0.09	0.13	0.09	0.09	
[]{[11] Miscellaneous receipts.	0.71	0.77	0.84	0.04	
Sub-total (Non operating reve-	0.80	0.90	0.93	0.19	
TOTAL (I+II)	8.79	10.37	10.31	9.5	
Expenditure	····				
1. Operating Expenses :				1	
A. Traffic :					
1. Salaries and allowances	4.02	6.82	7.46	7.25	
2. Tickets and traffic statio-	0.09	0.08	0.15	0.1	
3. Uniforms (traffic) .			0.05	0.0	
4. Other charges	0.22	0.01		0.0	
B. Repairs & Maintenance to boats:					
1. Salaries & Allowances					
(Including T.A.)	0.42	1.09	1.46	- 00	
2. Stores	0.23	0.15	0.45		
3. Other charges	0.08	0.16	0.24	0.2	

· '(1) - 3 ,	(2)	(3)	(4)	(5)
C. Power	2.27	2.46	2.26	2.18
D. Licence for passenger boats				
E. Welfare and superannua- tion F. General & Administrative Expenses:	0.39	0.62	0.73	0,53
1. Rent, Rates and taxes.	0.07	0.03	0.10	0.02
2. Insurance				
3. Staff cars and van expenses			***	
4. General Charges . \	0.13	0.13	0.14	0,14
5. Repairs & Maintenance to Bidg. 6. Other Charges	0.06	0.14 0.16	0.13 0.04	0.01
G. Depreolation	0.47	0.29	0,39	0.85
H. Arrears as per Award Arbitrators		2,62		
Total (Operating expenses)	8,45	14.77	13,60	13,11
1. Non-Operating expenses :				
A. Debt charges				
B. Other items (bonus) .	0.40	1.00	0.70	0.99
C. Interest	0.45	0.45	0.45	0.45
D. Income tax				
Sub-total (Non-Operating ex- penses)	0.85	1.45	1.15	1,44
TOTAL (I+II)	9,30	16.22	14.75	14.55

Source : Administration Report of Kerala State Road Transport Corporation.

TABLE No. 10(13)

KERALA STATE ROAD TRANSPORT CORPORATION—IWING OPERATIONAL COSTS OF INLAND WATER TRANSPORT (1965-66 to 1970-71)

(Rs. in lakhs)

Item	Expend	liture duri	ng the year
· 1	965-66	1968-69	1969-70 1970-71
. (1)	(2)	(3)	(4) (5)
Cost of personnel	4,57	9,53*	8.92 6.60
Cost of materials	2.57	3.70	2.98 3.33
Taxes, interests & depreciation	1.38	1.39	1.66 1.54
Over-head cost	0.78	1.59	1.18 7 1.28
Total	9.30	16.21	14.74 14.55

^{*}Includes accears in pay and allowances to the extent of Rs. 2.62 lather paid to the staff on the basis of the Arbitration Award.

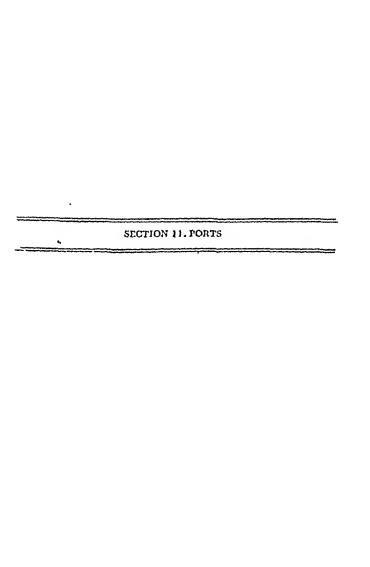
Source: Administration Report of Kerala

TABLE No. 10(14)

NET RETURN OF CAPITAL OUTLAY INLAND WATER TRANS-PORT SECTION (RERTC) (1953-51 to 1970-71) (Rs. in lakes)

	Capital outlay	Revenue	Expendi- ture	Net in-	Netre- turn on capital outlay (percent- age)
14. 10	(2)	(3)	(4)	(5)	(6)
1963-64)	7.01	6.06	7.86	-1.80	_25.7
1964-65	6.95	6.92	9.45	2.53	-36.3
1965-66	7.16	8.78	9.30	0.52	-7.2
1966-67	7.16	9.71	10.39	0.68	-9.5
1967-68	. 7.16	9.95	13,11	_3,16	-44.2
1968-69	. 6.52	10.37	16.22	~5. 8	-89.2
1969-70	7.91	10.32	14.75	-4.43	56.0
1970-71	7.91	9.52	14.55	-5.03	63.6

Source : Administration Report of Kerala State Road Tennsport,



SCA_TRANSPORT

PORTS & LIGHT HOUSES

(a) PORT ORGANISATION IN INDIA

Ports as marine stations are meant to provide sea-borne vessels certain basic services such as dock, harbour or berth facilities for the ships, and landing facilities for the passengers and cargo, apart from cranes, warehouses, labour etc. for cargo handling and transport.

- 2. In India, the ports may be broadly divided into those under the control of the Central Government and those under the control of maritime State Governments. The ports under the control of Central Government are eight in number and are known as the "Major Ports". (Two intermediate ports namely, Mangalore and Tuticorin are also coming up shortly as major ports). The ports under the State Governments/Union Territories are 187 of which 25 are 'Intermediate Ports' and 162 'Minor Ports'.
- 3. The major ports under the Central Government, are governed by their respective Central Acts. The three older ports of Bombay, Calcutta and Madras are governed by the Bombay Port Trust Act, 1879, Calcutta Port Act 1890, and Madras Port Trust Act, 1905, respectively. The remaining five, viz. Cochin, Visakhapatnam, Mormugao, Kandla and Paradip are governed by the Major Port Trust Act, 1963.
- 1. The intermediate and minor ports are administered by the maritime State Governments with the help of local advisory bodies and their mode of administration varies. The intermediate ports of Mangalore in Karnataka State and Tuticorinin Tamil Nadu, which are being developed as major ports are administrated by the Port Trust Boards. The various other ports under the maritime State Governments are administrated by their State Port Officers.
- 5. As for the major ports, their administration is carried on by the Por Trusts excated under the Acta governing them. The pattern of constitution of Major Port Trust is similar. The Chairman of each Major Port Trust is

appointed by Central Government and the Board of Trustees/Commissioners no ninated for two years by the Centra [Government to represent the husiness labour, railway and other interests concerned with the Port. Each Major Port Trustisempowered to appoint its nwn staff cadres in carry out its various activities. Questions relating to administration are decided by a majority of Trustees/Commissioners present. The Major Port Trusts are empowered to receive grants from Government, ruise loan in the open market, and fix and charge rates and fees for the services rendered. The Acts governing these Ports do not lay criteria in objectives in regard to the rates charged, cost incurred for the returns to be secured on the capital invested. They are, however, required to receive the prior approval of Central Government for their annual budgets and also submit annual administration reports. Their annual of India.

- 6. The port authorities in India derive their revenue mainly from left of dues and charges on the ships visiting their ports and the earge handled in their ports area. The rates of dues, fees and charges of the ports are uniform, the costs incurred by the ports being different from one another. The main sources of revenue from ship trafficare (i) Port dues, (ii) Pilotage (iii) limits hire, (iv) Survey and measuring fees and (v) Ship-repairs in they docks. The main sources of revenue from eargo traffic are:
 - (i) Wharlage/harbour dues/landing fees, (ii) Crane-hife charges, (iii) Redtalls from ware-houses, and (lo) Demurrage charges. Besides, the part authority 'may also care an income by providing rail and other transport for the cargo movements in the port-precincts, as well as bunker fuel and water facilities for the visiting ships.
 - 7. Besides administration, accounting and auditing, the main activities of part authorities include (1) hydrographic surveys, dredging, conservant and maintenance of port approaches, navigable channels and alons side berths, (2) light house, and light vessels under the port and buoying and lighting of channels, (3) pilotage and towage, mooring and unmooring, berthing and unberthing afficiently ships, (4) bandling, ware-housing and transportation of goods in the port area, (5) oivil, mechanical and electrical engineering and maintenance of harbour crafts and plants, (6) fire fighting and functation (7) stores (8) watch and ward and management of port properties and

estates, (9) medical, welfare, houting, etc. To carry out these heterogeneous activities, each port authority engages different categories and types of labour. The workers employed by the part authorities are generally known as 'port workers' and the constitute the single-ingest contingent of labour in each part.

- 0. Apartfrom the port authority and its offices, a number nfother agencies; organisations, both private and government, operate in the port area. They include the Dock Labour Biard, Atevedore organisation, limiding employees beensed measures, clearing and forwarding agents, chipping and paluting employers, owners of barges, lighters and launches, ship numers, shipping agents, tea traders, custom and other government agencies. Generally, the Workers employed by agencies other than the Port Trust are known as "Dock Labour who are required to register with the Dock Labour Board located in the port area.
- 9. The most prominent activity in a port is cargo-handling which absorb most of the labour in the port area. There are essentially two sets of workers engaged in handling the catgo of ships. One set is engaged by the Stevedore to work on board and the ships, while the other set belonging to the port authority handle the cargo from the landing point to the stocking point or eitererss.
- 10. The wages paid to workers vary from category to category of workers and also from one cimploying agency to another. The two predominant methods for wage payment are a fixed monthly salary and piece wage rate or hourly wages. Practically all the major ports have evolved schemes for incentive wage rates for different types of work and activities.
- 11. Rail-transport facilities are provided for cargo movements in the port area of all major ports except Paradip which is connected only by roads The railway system is owned and operated by the port authorities in the case of Calcutta, Bombry, Madras, Visakhapatnam and Mormugao Ports. In the case of Gochin Port, it is owned by the Port Trust and operated by the Southern Railway. At Kandla Port, the portrallway is both owned and operated by the Western Railway authorities.
- 12. The ships visiting Indian ports are required to pay not only the due fees and charges for the services rendered by the port authority concerned, but also light-dues to the Light-Houses Department of the Central Ministry

of s'tippint and Transpart. The navigational aids are of 2 categories namely special and doeal. The provision, superintendance and management of general aid is vested in the Union Government and the decal aids are the responsibility of State Governments, Port Trusts etc. but general control over all navigational aids is exercised by the Union Government. This is being done through the Department of Light houses and Light Ships which is a self supporting through the Department, its revenue being derived from light dues levied on shipping a the carrent rate of 30 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for salling the carrent rate of 30 paise per ton for Steamship and 6 paise per ton for salling the carrent rate of 30 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for Steamship and 6 paise per ton for St

Committees which related either to specific ports or to selected issues Lixaming of the former category are the reports of Sir Godfrey Armstrone's West Port Development Committee, Desai Committee on service, conditions of marine services at the parts initially for Bombay and then for the ramaining parts. The Port and Supping Statistics Committee (1955) and also the report parts. The Port and Supping Statistics Committee (1955) and also the report (1974) 1958) of the International Association of Ports and Harbours (I.A.P.H.) Team fallunder the later category. There have also been a tewinquiries was structure, categorisation of labour, etc. at the ports undertaken (2017) and the Central Committee as P. C. Chaudhuri Committee (1957) and the Central Board for Port and Dock Workers (1969).

In 1958, the Government of India appointed the Commission on Major Ports with the following terms of reference:—

- (i) to examine the method of working of Major Ports with a view to improve their operational efficiency;
 - (ii) to consider broadly their development programmes in the context of present and future national needs with special reference to the chain ging shipping and port technology;
 - (ii) to examine specifically the following aspects of port working;
 (a) Management, (b) Financing and (c) Personnel.
 - (is) to consider in the light of the above, the expacity of the ports to exhauce the current rate of exgratia payment; and
 - (2) to review the arrangements that exist for co-ordination among it

(fi) to make recommendations on the above and other ancillary matters.

The Commission submitted its Report in June, 1970.

DEVELOPMENT OF PORTS IN THE FOURTH PLAN

The total cost of the programme for the development of major ports is about Rs. 280 crores. The Port Trusts are expected to contribute about Rs. 100 erorestroin their awn resources. The more important schemes in progress which are proposed to be completed in the Fourth Plan are the Haldia Dock system and the Mangalore and Tuticorin Port projects. The first phase of development of Tuticarin and Mangalore Ports is expected to be completed Provision has been made for completion of the dock expansion which were started in the Third Plan. Among the new major schemes, mention may be made of the installation of modern ore handling facilities at Morning o and Madray harbours, construction of an outer harbour at Vishakhapatnam for handling deep draft ore carriers initially upto 100,000 dwt (dead weight tonnage) and ultimately upto 200,000 dwt., construction of a satellite port fo. Bombay at Nhava Shava and an oil terminal at Cochin, It is proposed to set up a Central Dredging Organisation to meet the capital dredging requirements of misjor and minor ports. Provision is being made for technical investigations relating to problems common to various ports as also for the setting up of a consultancy organization.

For the development of minor ports a provision of Rs. 35 erores (Rs. 20 ejores in the Central Plan) has been made in the Fourth Plan. Provision has been made for a Minor Ports Dredging and Survey Organisation, development of ports factilities in Andaman and Nicobar Islands, Laccadive, Minicoy and Amindivi Islands and a few other selected ports in State such as Porbander, Mirya Bay, Cuddalore etc.

(b) DEPARTMENT OF LIGHT HOUSES AND LIGHT SHIPS

(and The Department of Lighthouses under the Ministry of Shipping and Transport looks after the maintenance and development of navigational aids on the coastline, excepting those maintained by the port and the maritimer state Caverament. The lighthouse Department is a self-financing Department. The lighthouse Department is a self-financing Department. The light dues charged are 6 paise per NRT for sailing vessels and 50 paise per NRT or steaming vessels that enter the ports of India.

医乳腺管理学的 网络沙沙

TABLE No. 11(1)

NAVIGATIONAL AIDS ON THE COAST LINE OF MARITIME STATES (1972-73) TV SE TO MY TIN Nos.) AC 4

				(111 1409)
Maritime State/U.T	Coast-line (in Kms.)	Light Duoys	Decca- navigator chain stations	General Radio Light Beacons Houses
(t) (t)	(2)	(3)	'(4)	(5) (6)
A-WEST-COAST	,	,	- 1 ₃ 1	The state of
Gujarat	1,600	19	4	544 19 5 472
Maharashtra .	510	1		250 . 11 2
Goa	***		4.	1211/11/19
Karnataka	280		,	5 " × 1;
Kerala	575		٠	1241 2441
B-EAST-COAST:				146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 march 146 ma
· Tamil Nadu .	990	2		10* 1**
Pondicherry8 .	58			3
Andhra Pradesh .	960	1		.8*
Origo	430		2	5 15
West Bengal			. 2 .	1 - 4
C-ISLANDS:	•			relation
Lakshadweep Grou	p′	,	fire,	8* 1**
Andaman and Nicobar .			$\frac{1}{2} \frac{n}{2}$	114* (2*#)
TOTAL (A+B+C)	5,403,6	23	8	147 16

^{*}Include under establishment as indicated: Gujarat-4, Kecala-7, Nadu-3, A.P.-1, Lakshadweep-1, and A. & N.,-3,

^{**}Under establishment/Construction,

⁵ As on 30-6-73.

[@] One under establishment.

AFor available states/Union Territories only.

* *	2	,			(in Nos.)
Maritime State/U.T.	Fog signals	VHPIRT Sees	Radar	Launches	Light Vessels
(1)	(7)	(8)	(9)	(10)	(11)
A'-WEST-COAST :					
Gujarat	11	11		3	2
Maharashtra .	1	6	1	1114	_
Goa	-				
Karaataka .	1	3		1	7
, Kerala • •					
B-EAST-COAST					
Tamil Nadu					
Pondicherry \$	-	_		_ ,	\
Andhra Pradesh .		~~			-
Orisia		3		1	
West Bengal		3	1	٠ ـــ	
C-ISLANDS :				•	
Lakshadweep Group					
Andaman and Nicobar	_	5	_	1+4	
1				<u> </u>	
TOTAL (A+B+C)	13	31	2	10	2

^{**}Under establishment/Construction.

Nore: -- For Tigures in col. (2), Report of Intermediate and Minor Ports of India (Government of India, 1966), except Pondicherry.

Source: Department of Lighthouses and Lighthips, Govt. of India & Pondicherry Territory.

TABLE No. 11(2)

NO. OF, MAJOR, INTERMEDIATE AND MINOR PORTS IN THE MARITIME STATES (1972-73)

Maritime State/U.I	:		No. of	No. of Inter-	No. of Total No.
			Major Porm	mediate Ports	Ports Ports
(1)			(2)	(3)	ر م _ا (4) ر آن جر (5) ⁽
A-WEST-COAST					130 130 130
Guiarat,			1	11	43 1 55
Maharashtra		·	i	2 '	47 50
Gaz		·	1	-	6.
Karnataka				2*	20 22
Kerala		•	1	3	. 8 3 (3 4 1 1 2)
-EAST-COAST:					, t ₁ ~
Tamil Nadu			1	3.	10 14
. Powlicherry	•	· ·	-		2 2
Andhra Pradesh			1	2	6 1 1 1 1 5
Orista			3		2 3
West Bengal .			ì	1*	2 34 1 2
C_ISLANDS t					to the Cartin
Lakshadween Group		_			9
· Andaman & Nicobar		·.		1	9 10
Total (A+B+C)		•	. B	25 -	162 195

^{*}Mangalore Port in Karnataka, Tuticorin Port in Tamil Nadu; sala Haldia Port in West Bengal are being developed as Government.

DRAFT, MOORING & BERTHING FACILITIES AVAILABLE AT MAJOR FORTS (AS ON 31-3-1973)

(In Now)

Ports			Existing Draft (Metrus)			»t		Bunder Inland Vessels Wharves	
		Mini- mum	Maxi- mum	Moor ings	Berths	No of Jetty systems			
1	(1)		***************************************	(2)	(3)	(4)	(5)	(6)	(7)
۸-	WEST-COAS	T :							
	Kandla.			7.01	11 27	6	7	4	1
	Bombay\$			5-18	7.62		60	**	17
ſ	Mormugao		٠	4.27	8.53	5	b	1	1
	Mangalore &			2.00	3.00		7	3%	
	Cochin .			2.63	9.75	12	13	3@	
D-	EAST-COAST	T:							
•	Madras			7.90	13-40	3	19	2	
	Tuticorin £			2.50	3.00		f	3	
	Vishakhapatn	am		8-51	10.21	4	11	3	
•	Paradin.			10,06	11:28	1	t		4
	Calcutta			0.40	8 90	32*	53	18*	• 9
	TOTAL (A+B)	•	•			63	181	37	26

[£] Being developed as a Major Port.

[%]Wooden Jetties.

[@]At Present used for handling easiew oil etc.

^{*}Including 10 Moorings in disusciout of commission.

^{**}Including Calcutta Garden Reach, Budge Budge and Hildia. \$4s on 31-3-1972.

Note :--(i) letty and bunder: It is a port facility for a ship in unprotected water with a landing facility and unassured draft.

⁽ii) Mooting : It is a port facility with assured draft but no landing facility.

⁽ii) Berth 1 It is a port facility with assured droft and landing facility

TABLE NO. 17(4)
BERTHS, WAREHOUSES AND TRANSIT SHEDS AT MAJOR FORT

· Posts		No.	of Berths	1 (the 1825
· YOU	Total	For Coal	For Ores	General For Cargo Passengers
(1)	(2)	. (3)	(4)	(5)
A-WEST-COAST :				17 2 3 7 18 Carl
Kandla	7			4 7 7 7
Bombay	60*		-	48
Mormugao .	6		1	5 7 7
Mangalore L .	7		2	11、12年の12年12日
Cochin	13	2		بنية بالمراز الإقوا
B-EAST-COAST:				
Madras	19	2	4	· 2.1344
TuticoriaL	4	2		
Visakhapatnam .	3 1		4	4 1 1 6
Paradip	1		1	
Calcutta	52	6	3	30
TOTAL (A+B)	180	, 12	13	111 (1) (1) (1) (1) (1) (1) (1) (1) (1)

^{*}As on 31-3-72.

Being developed as Major Ports.

Tance No. 11(4)-Creid.

Dent	×	Wardi	Transit sheds			
Port	Other Berths (Not)		No. Area ('000 Sq. M.)		Area ('000 Sq.M.	
(1)	(7)	(Ø)	(9)	(10)	(11)	
-WEST-COAST .						
Kandla 7	. 1(a)) 1	14 D	ŋ	27.9	
Bombay .	4(6)		65.3(c)	J1 (d)	220.6	
Mormigan		7 1	12.7	3 `	7.5	
Manualdre .		5(e)	20.0 (f)	4	2.0	
Cachin .	. 2	5	15 7	1.2	33-8	
-EAST-COAST						
Madeat	. 5	91	78.0	10	47.	
Tuticarin.C .	. 2(g)			13	8.	
Visakhapatnam	. 3‴	5	27 0	5	22.0	
Paradip .			•		_	
Deleusea	. 12	59	475 3	35	200	
TOTAL (A+B)	. 29	108	738.0	122	618.4	

[&]amp; Being developed as Major Ports.

⁽a) For oil Tankers.

⁽b) Oil Tanker Berths.

⁽e) Includes 8-1 thousand sq. M. area of 3 compartments at Wadi Bunder Warehouses

⁽d) Excludes Passengers sheds, one at Indira Dock and one at Victoria Dock as on 30-9-72.

⁽e) Out of 5 warehouses 2 are privately owned.

⁽f) As on 30-9-72.

⁽g) Combined of general cargo and Passengers.

TABLE No. 11(5) STAFF POSITION AT MAJOR AND OTHER PORTS

(As on 31-3-1973)

SIAPP POSITI		(As on S	17-3-19	13)		(In Num	bers)
		Total			197.		Hiren
Maritime States U.T./Ports	1971-72 1972-73		972-73		whose pay is between Re.	there whose whose whose whose whose whose we can between Between Bersell 1988 and Rs.	
(1)		(2)	(3)	(4)	(5)	(6)	(7)
A—WEST COAST Gujarat : Kandla · Other Ports ·		2,499 1,944	2,379 2,217	30	191 . 4	1,121 107	1,037 2,106
Maharashita : Bombay : Other Ports :	:	30,099 249	30,275 235			22	207
Goz: Morinugao Other Ports	•	2,523 120	2,250 12		B 76		
Karnataka: Mangalore. Other Ports.		138 189	13		2 3	7 57 24	
Kerala: Cochin . Other Ports .	٠.	4,815 106	5,49 16	•	2 4 2	62 2,30 ²	

, (1)		(2)	(3)	(4)	(5)	(6)	(7)
B-EASTICOAST	·						
Tamil Nadu;	r 1						
Madras .	٠.	10,004	11,588	96	1,073	8,402	2,017
Tuticorin .	•	273		4	8	76	
Other Ports	•	161	161*	•		.,	
Pondicherry :		62	61	1		1	59
Andhra Pradesh :				_			
Vitaklinpatnam Other Ports	•	10,004 273	10,049 220	64 3	305 11	4,964 11	4,636 165
Orisa :						`	
Paradip.		81	96	3	25	58	10
Other Ports .	•	9	9*	•••			***
West Bengal :							
Calcutta .	ţ	42,578	41,724	900	2,624	11,900	26,300
Andamans & P	lico-				•	,	
Port Blair	•	•••	31	2	~	28	1
TOTAL	1	08192 1	.07,642	1185	4,902	29,560	41,550

^{*}Figures are for 1971-72.

()

Notes: (1) Pay is inclusive of all the allowances drawn by the individual during the year.

⁽n) Total of col. (4) to (7) will not agree with col (3) because the break up is not available in each case.

TABLE No 11(6)

NO. OF DOCK WORKERS REGISTERED WITH DOCK LABOUR BOARDS AT MAJOR PORTS

вож		(1972-7	3)			(In Num	heis)
Macitime States/ U'T/Ports	Fore- men	Win- chnien Dri- ters	War- kersj Maz- doors	Tendal*	Cierks	VII	Total ;
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
A_WEST.COAS Gujaret : Kandla	T		462	33		· paret	495
Maharashira: Bombay	289	293	2,166(2) 418	31	2 17 <i>7</i>	3,660
) Goa : Mormugao		1,00	1 1,92	7	· -		2,931
Kerala : Cochin ,		_ 19-	1,19	3 107	1 17		1,791
B_EAST-COA Tamil Nadu = Madris	s r .~ ~	25	1 1,28	12 9	6 2	32 210	
Andhra Prade Visakhapat		<u> </u>	5 76	i7 5	•	5 101	1,06
Onsia : Paradip	* T3	, 	f		1 	- 2 -	
West Bengal Calcutta	•	364	335 5,	983 , 2	40 1,	203 5,49	2 14,07

TABLE NO 11(7)

TABLE NO 11(7) NO. OF SHIP CALLS AT THE MAJOR AND OTHER PORTS (1971-12 and 173)	THE MAJ	Table No 11(7) OR AND OTHER) 11(7 OTHER	PORT	38 (197	7101		6
Maritime State/U. T./Ports No. of sailing	No. of sail Vessels	ing	Total	No.	No. of Steamers With Indian	ners n Wı	With Foreign Flag	le l
	1971-721972-73 1971-721972-73 1971-72 1972-73 1971-72 1972-73	2-73 1971	-721972	1761 87-	-72 197	2-73 197	1-72 19	12-73
(1)	(2)	(3) - (4) - (5)-,	(f) r	(5)- ,	(6)		(3)	6
	59,445	64,332_5,470	1	5,383 2,180		2,230	3,290 3,153	3,153
Gujarat : Kandia Other Ports .	. 10,862	100	250	281 - 651	78 381	109 345	172 309	172 306
Maharashka: Bombay . OtherPorts	. 15,719	21,136 20,796	2,493	2,450	1,119	1,112	1,374 32	1,338
Goa : 1/2 Mormugao Other Potts	. 131	32	629	617	6 1	101	539	516

Other Ports

TABLE No. 11(7) -Conid.

				Links	L'une von l'ari					
		-			1	1	9	3	9	€
(1)			3	6	€	2				
***	1	İ								
							,	5	193	140
Karnstaka :			6	1 10 1	142	182	11	4	:	ď
. tractions .			coc**	200	33	80	13	SS	44	ì
Other Ports			5,930	4,001	1					;
***********					,	,	707	416	634	391
Netala i			9	77	1,031	2001	3	:	5	41
Cychin .	٠	•		047	1.45	ຮູ	82	*	,	
Other Ports			C+11	,	•			.03	2.214	6881
				498	3.660	3,382	٠. د	2011	<u>.</u>	
B. Cart Coart			31/15	2	<u>.</u>					,
Tamil Nadu					0.0	610	325	323	591	2962
• • •		,	24	1	910	1		9	187	121
Madris .			t	444	143	311	361	200	2	1
Lutlearla .		•	200		000	294	189	225	11	ල්
Other Ports			2,522	15	26.5	=		i	36	
Pondichery .		٠	i	i	3	:				
Andlera Pradesh t					5	6	126	143	\$30	357
Visikhryannam		•	ı	1	350	116	36	#	86	75
Other Ports		•	Į	i	:				4	
	-	1	-					:		

isn: Paradip Other Ports Vest Bengal: Calcuin 1,244 1,155 494 559 750 3	(1)	٠٠٠)		(2)	(3)	(#)	(5)	(9)	3	3	6
orts	isa i	2.4	, ,			.;	1	ļ. ·	2.63		
1,244 1,155 494 559	Paradip .	•	•	521	. 1	32	. 76	. 44	12	73	, 5
1,244 1,155 494 559	Other Ports		•	1	í	1	i	1	i	1	2) [
1,244 1,155 494 559	Vest Bengal :	. , (١		,	,					٠
	Calcutta			1	1	1,244	1,155	464	559	750	ે. 596

TABLE NO. 11(8)

TRENDS IN TOTAL PASSENGER TRAFFIC (1960.61 to 1972.73)

	(1300	J. U.L. 40		(In	,000 Nm	noccia-
Maritime States/ U.T./Ports	1960-6	1 190	55-66 19	70-71 193	* 1 1 1	972.73
(1)	(2)		(3)	(4)	(5)	والماراز وكالمتنطق والمستنطق
A_WEST-COAST	. 122	9-4	1612-7	8547 • 4,	6012-7	6136.0
Gujarat : Kandla* Other Ports		50-7 0-6	174·5 26·3	59•6 47•0	15·9 23·5	8.5
Maharashtra: Bombay Other Ports	. 91	9.1	748·0 599·5	583·2 1767·6	524·4 / 1767·5	1936-0
Goa 2 Mormagao Other Port	:	8-6	21.4	2·9 60 7 9·9	1·5 3668·7	3692.5
Mangalore . Other Ports	:	14·5 52·0	15·3 22·9		. –	
Kerala: Cochin Other Ports		3.9	2·0 2·8	. 4.4 2.8 192.5	6·1 3·9 168·2	
B_EAST-COAS Tamil Nadu: Tuticorin Madras	• • ,	92.8	157-0 10-4 107-9 18-9	(0.03)	(0.02	(0·04 6 75
Other Ports		_		·	- ¹ , ₂ , 7,	- (1)

TABLE No. 11 (8)—Contd.

(1)		1 (4)	(5)	1,3)
Andhra: Prodesh : Visakhapatnam	9-6		3 • 0	
Origan .	; (t) ,	٠		
West Bengel 2 Calcutta 27-5	10.2	18-3	20 • 2	27-1
C ISLANDS Post Blair	20.7.	*** 、	. ***	,52 • 9
Total (A+B+C) 1322-2	1790-4	8739-9	6180-9	7594-6

³¹⁻¹⁻⁷² Petry services between Kandla and Navlakhi were discontinued w.c.f.

disembarked at Kanya Kamari Port between shore to Vivekananda Rock.

TABLE No. 11(9)

TRENDS IN TOTAL TRAFFIC IN PRINCIPAL BULK AND OTHER COMMODITIES AT THE MAJOR PORTS IN 1969 61, 1963-66 AND 1970-71 on 1972-73 (In lakh though)

		(%	modules		t-
Ports		Mireral	Olls		
100	1950-51	1953-66	1970-71	1971-72	1972-73
(1)	(2)	(5)	(4)	(5)	(1)
_WEST.COAST	-				14
Kand's	7	9	9	13	54
Bom'say' · ·	70	94	83	96	
	• -	1	2	3	•
Mormagae .		10	36	34	31
Coclin	tı	10	J		
EAST-COAST				28	5
Madris	6	ŋ	27		i
Visakhapatnam .	16	20	17	19	
Paradip				****	-
•	15	14	14	19	20
Calcutta					
TOTAL (A+B) .	120	157	188	212	21

^{*}Excludes Oregade Traffic.

(In lakh tonnes)

. 50 -

Ports -	*	, Con	nomdities		
	,	· I	on Ore		
	1960-61	1965-66	1970-71	1971-72	1972-7
(1)	- (7)	(8)	(9)	(10)	(11)
A-WEST COAST		•	-		
Kandla	í			`	
Bombay	. 1	. 2		· — .	
Mormugao	59	75	96	106	117
Cochin		_			
LEAST-COAST	`		•		
Madras	5	12	21	21	21
Visakhapatnam	. 1	11	49	47	, 41
Paradip			22*	19@	20%
Calcutta		10£	4£	2 £	2,€
TOTAL(A+B)	67	110	192	195	201

[£] Includes other ores also.

Includes about 17000 tonnes of chrome Orc, 3000 tonnes of ferro chrome and 3000 tonnes of General Cargo.

[@] Includes 1,06,968 tonnes of chrome ore and 893 tonnes of fish.

[%] Includes 1,48,288 tonnes of chrome ore and 1167 tonnes of fish.

Tates, No. 11(9)-Contd.

tin takh tonovil

•			C	ommodities	
Ports			-	Cast	1 - 1 - 1 - 1
\$1. 1944 - 5.5	•	1967-61	1965-66	1970-71	1971-72 - 1972-73
(1)	-	(12)	(13)	(14)	(15) पांगी
A-WEST-COAST					
Kandla .	4			-	الله الله الله الله الله الله الله الله
Bombay .		-		-	بإليكاء بالمراث
Mormugao			_		
Cochia .		3	2		1
B-EAST-COAST					1 Com 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Madras .	4	4	4		_ (0.2)
Viikhapatnam		1			-
Paradip .					ر المعلق المعلق المعلق المعلق المعلق المعلق المعلق المعلق المعلق المعلق المعلق المعلق المعلق المعلق المعلق الم المعلق المعلق
Calcutra .	•	14	14	7	8
Toral (A+B)	•	. 22	20	7	9

TABLE No 11(9)-Contd.

(In lakh tonnes)

	1,71	٠, _		Comn	nodities		
Ports		·	· Fertili:	er/Rock	phospha	te / Sulph	ur
Mary Control	Şe	196	0-61 190	35-66 19	70-71	1971-72	1972-7
他 (0)特别			(17)	(18)	(19)	(20)	(21)
A_WEST COAST							
Kandla	•.	• ,	<u> </u>	1	2	5	e
Bombay	4,21	•	٠ 2	5	11	14	1 16
Mormugao	4 ~	٠	-	1	1	1	1
Cochin	4:	•	1	2	3	2	, 2
B_EAST COAST							
Madras	• .	•	2	5	5	5	6
Vishakhapatnam	۵,			1	6	· 7	6
Paradip	•		<u> </u>	•			
Calcutta	••	•	1 /			2	4
Total (A+B)	• , ,	•	6	18	29	36	4

TABLE No. 11(9)-Cott.

(In lakh toutes)

				Co	mmodities		
Po-ts			·····	ſ	oodgrains		
		•	1950-61	1965-66	1970-71	1971-72	1972-75
(1)			(22)	(23)	(24)	(25).	(2部
A-WEST-COA	ST						
Kandla			4	12	. \$,		2
Bombaş			22	26	, 10,	. 5	>
Mornugao			•		,		1
Costila	•		ŧ	6	. 2.	. 1	1
B_EAST-COA	ST						
Mules			4	9	, 7.	. 6	2
Vitakhapa	tnam		3	\$. 2*	3	£
Paradip			***	•	٠ ١	٠	
Cafentta		•	18	15	. 9.	, tt	7
TOTAL (A	+11)	•	52	72	, 22,	27	14

. TABLE No. 11(9)-Contd.

(In lakh tonnes)

				G	ommodities		
	Ports			Iron, St	eel & Macl	inery	
		_	1960-61	1965-66	1970-71	1971-72	1972-73
	, (1)		(27)	(28)	(29)	(30)	(31)
Ā	-WEST-COAST	•	·				
	Kandla .		1	_			
	Bombay .		7	9	6	10	8
	Mormugao						
	Cochin .	•	1			-	(0.5)
B-	EAST-COAST						
	Madras .		1	2	2	2	2
A	Visakliapatoam		1	1	4	2	3
	Paradip .	• -	-			-	
1	Calcutta .	•	6	9	6	. 9	8
	TOTAL (A+B)	•	17	21	18	23	21

TABLE No. 11(9)-Contd.

(In lakh, tonnes,

				ASSERTING TO SERVE
		C	ommodities	مِيْسِ عَلَيْنِ وَأَمْرِ وَأَوْرِهِ أَوْرِيَّا وَأَوْرِيْنِ الْمُؤْمِدِ وَأَوْرِيْنِ الْمُؤْمِدِ وَأَوْرِيْنِ
Ports		Ot	her Cargo	- ; ' ! '
_	1960-61	1965-66	1970-71	1971-721972-73
(1)	(32)	(33)	(34)	(35) (36).
A_WEST-COAST				
Kandla	3	s	2 -	1/15/17/17
Bombay	41	43	34.	37. (1.5)
Mormugao .	5	2	11	7.
Cochin	8	9	7.	9 (17)
B_EAST-COAST				- Driver State
Madras	8	8	, 7	• 6 (Stale)
Visakhapatnam	, €	; ;	, 9	8.5577
Paradip .			- `	一 (アラダ
" Calcutta .	. 40	0 3	2 19	. 22
· TOTAL (A+B)	. 11	1 10	4 . 89	. 90 न्यंत्री

TABLE No. 11(9)-Contd.

response attended to the second of the lake tonnes)

Commodities								
Ports	Total							
10	60-61	965-66	1970-71	1971-72	1972-73			
0	(37) ,	. (38) / .	(39)	(40)	(41)			
-WEST COAST	•			,				
Kandla	16	25	16	20	. 2			
Bombay	143	179	144	162	159			
Mormiigao 💛 🖓 👢	64	-79	110	. 117	129			
Cochin	20	29	48	47	42			
-EAST-COAST				٠,				
Madras	30	. 49	69	68	68			
Visakhapatnam	28	44	87	86*	74'			
Paradip		•	22	19	· 20			
Calcutta	94	97	60	73	, 66			
TOTAL (A+B)	395 .	502	556	592	583			

Excluding 20thousand tonnes of transhipment cargo in 1971-72 and 57 thousand tonnes in 1972-73.

TABLE No. 11(10)

TRENDS IN COASTAL CARGO-TRAFFIC AT MAJORAND OTHE

PORTS (1960-61 to 1972-73)

(In '000 tomate')

Maritime States/U.T./ Ports	1960-61	1965-66	1970-71	1971-72 197
43 (1)	(2)	(3)	(4)	(5)
A-WEST-COAST .	6,526	9,362	7,056	8,005
Gujarat :			•	
Kandla.	400	567	705	856
Other Ports,	1,371	1,740	1,21,2	1,439
S Maharashtra:				
Bombay\$	3,294	4.373	2,816	3,368 3,0
Other Ports:	•••	544	359	311
			•	254.5
Goa:			•	
Mormugao	·	164	267	349
Other Ports	***	***	75	3173,
"Karrioloka t			. `	1
Mangalore	259	265	232	252
-Other Ports	139	187	183	164
(), #h			. "	
Rerala 2	,	•	•	
Cochin .	1,063	1,245	1,069	1,082
. Other Ports	***	257	138	153 1 ¹⁰

^{\$} Lucindes overside traffic.

TABLE No. 11 (10) - Could.

(1)	(3)	(4)	,(5)	(6)
-EAST-COAST 5,020	5,680	2,949	3,927	3,937
Madras B18	1,176	607	430	477
Taticoria. 712	701	280	765	667
Other Ports	139	24	19	14
Pondicherry :	~·*	,		ر ٠
Andhra Pradesh				
Visakhapatnam 601	690	* 387	331	317
Other Ports	. 6	,	. 7.	
Orinar Sales Sales	•			
Patadip		1	. 1	1
Other Ports				
West Bengal a		•		
Calcutta 2,669	2,968	1,650	2,374	2,461
TOTAL (A+B) . 11,546	15,042	10,005	1,1,932	11,391

TABLE No. 11(11)

TRENDS IN FOREIGN CARGO TRAFFIC AT MAJOR AND OTHER PORTS (1960—61 to 1972—73)

1960_61 1965_66 1970_71 1971 Maritime States/U.T./ Ports (1) (2) (3) (4) 21.005 A=SYEST COAST 27.56 29,899 Guiarat : Kandla. 1,173 1,938 907. 1,013 Other Ports . 1.523 1.454 Makarashtia : 11.055 13,537 11,554 Bombay. Other Ports . 332 559 Gòa : 11,3si Mormugao 6.401* 7,703 10,738 Other Ports Karnataka : Mangalore 146 228 166 Other Ports . 271 506 584

Kerala : Cochin .

Other Ports .

SExaluda averside traffi

3.743

194

947

1,627

166

^{*}Includes coastal total traffic also,

TABLE No. 11(11)-Genid.

	(5)	(3)	(4)	(5)	(6)
EAST-COAST	11,381	15,319	22,438	22,630	20,973
Tamu Nadu	اگري د ايل داد داد داد داد داد داد داد داد داد دا	7. 1. 1. 1. 1.			
Madras	2,221	3,696	6,318	6,362	6,339
Tuticorin	247	272	925	258	360
Other Ports		392	290	263	379
Pondicherry :	Included in Tamil	52	188	138	98
The state of the	Nadu	e . t	: •		
Andhra Pradesh :				,	
Visakhapatnam	2,162	9,770	8,346	8,307	7,092
Dther Ports	249	576	. 500	477	527
Orista 2	•				
Paradip	. 3.7	110	2,156	1,905	2,022
Other Ports	• ,				-
West Bengal 's the	• •			,	
Jaleutta"	6,502	6,761	4,315	4,920	4,156
TOTAL (A+B)	32,367	42,879	. 52,337	54,470	54,958

TABLE No. 11(12)

CARGO IMPORTS OF INDIA THROUGH PORTS —BY COUNTRILS OF ORIGIN DURING 1972-75

(In '000 fonnt) '

Imports from foreign countril
by origin

				1.mp-	Ъу	origin	
Maritime States/ U.T./Ports	Imports f		Im- ports from foreign countri- es	Adja- cent coun- tries	Japan	Other U Asian coun- tries	•
(1)	(2)	(3)	(4)	(5)	(6)	, ⁽⁷⁾ ,	(8) "I
A-WEST COAST	19,726	3,391	16,335	8	408	11,474	905 #
Gujarat : Kandla Other Ports .	2,085 944	557 470	1,528 474		_	,968 , 9,	157 til 47 +5
Maharashtra : Bombay* Other Ports	12,662 152	1,399 152	11,263	7	367 —	8,083	652
Godi Mormugao Other Ports		- 383 28	103	_	13	59 —.	(0.3)
Karnalaka : Mangalore Other Ports				. <u>-</u>	(0-1)	· -	, ,
Kerala 7 — Cochin Other Ports	3,11 120				28	2,354 1	, 46 5

Excludes overside traffic but Includes 2 thousand tonnes of foreignimp of bunker or !.

TABLE No. 11(12) __ Contd.

ARGO IMPORTS OF INDIA THROUGH PORTS_BY COUNTRIES OF ORIGIN DURING 1972-73

(In'000 tonnes

Maritime States/	Impor	ts from	· fóreign	countrie	by origin	ì
eo.i.jrons	. u.k.	West Gera many	USSR	African coun- tries	Austra- lia & N.Z	Others
in the second	,(10)	(11)	(12)	(13)	(14)	(15)
WEST COAST	319	143	308	505	93	1,708
andla	. 36	_	·\$6		٠	237
ther Ports		,—	13	27		372
arashtra` t imbay	. 278	119	200	219	78	925
ther Ports	; ` , -					***
ormugao.	<u> </u>	2	-	(0-1)		29
her Ports	• ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		_ '	` —		٠.,
angalore.	. ,	5	19	7	-	13
her Ports			_	_	-	
ehin .	. 5	17	31	188	15	. 123
her Ports	·		_	64	-	9

Exclude overside triffice but include 2 thousand tonnes of foreign imports mker oil.

TABLE No. 11(12)—Conid.

			1,000		.: 37.	The same of the same
(1)	(2)	(3)	(4)	(5 ₎	(6)	77 10 10
EAST- COAST	11,399	2,378	9,021	87	651	4,936 813 40
Tamil Nedu: Madras Tuticorin Other Ports Pondicherry:	4069 522 144 98	147 324 7	3,922 198 137 98	33 8 —	165 29 39 47	2,849 260 24
Andhra Pradesh Visakhapatan Other Ports	m 2,372	122	2,250 45		76	1,467 219
Orius : Paradip Other Port:	. 1	. :	i			
West Bengal; Calcutta	. 4,148	i,7	77 2,3	•	••	95 582 1891 112
TOTAL (A+	B) . 31,1	25 5,7	69 25,3	56	95 1,0	59 16,410 1, ⁷ / ^E

TABLE No. 11(12)-Contd.

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(1)	(10)	(11)	(12)	(13)	(14)	(15)
B_EAST COAST	251	275	561	128	60	817
Tamil Nadu	53	811	G 1 3 1	40 6	4	292 8
Tuticorin Other Ports	• =		~~	_	_	44
Pandeherry : Andhia Pradesh :	·. —	•			,	51
Vientlinnituare	, 5	21	136	-		154
Oring :			*****		-	21
Paradip		-				
Other Ports		****	~~	***	, <u>, , , , , , , , , , , , , , , , , , </u>	
Calcutta .	193	137	333	.82	56	247
Total (A+B)	570	419	869	633	153	2,52
*****					·	

TABLE No. 11(13) TABLE No. 11(13) TABLE No. 11(13) TABLE No. 11(13) CARGO EXPORTS OF INDIA THROUGH DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINATION (I DESTINAT	
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TO EXECUTE	Export destrict U.S.A. rada
EXPOSES	Other.
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Maritime Indian tries	ries (6) 230
Marti, Ports Indian	160
D. T.	(5) 1,103
	(3) 190 49
(4)(4)	30 111. B. 111.
(3)(3)	216 10 5
(3) (3) 17,0	226
(2) 4.063 17,0	220 1111
	68 128 220 140
21,113	
	102 202 293
IGST COAST	704 793
3-WEST 0342 949 1.	120 80.
Ami'	
Guigratia 2,051	660 120 80 133
(1) 1000	821 1.200
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Matarashine 1,057 1'	3 (0.2)
Marmhay orts . 12,360 10	
Other Ports 12,360 10	- 61 - 69 ARV
	65
God 199	
Goa 5 mugao 199	390 52 7 360
Niorma Ports 267 134	386 28 55 350 360
Office:	
Kamalakalore . 522 701	
Karnatores . 701 Other Ports . 1,087 68	a 100 an 1 1 1
500 500	
Other 1,000 1,30 1,550	11,952 (642 92 20)
Kirala 1,550	
Action all the second will be	2417 2 201
Cochin Corts 13,511 Cother COAST 13,511	2.417 24 201 13 59 242 (0·02) 17 17 18 59
Other GOAST Land 33	0 2 162 (0.02) 4- 59 59
B_EAST 1 2747 34	3 742 10 12 13
Ocher Ports 13,514 Other Ports 23,514 REAST COAST 23,747 Tomil Nota: 2,747 Tomil Nota: 2,747 34	242 (6°02) 7 242 (6°02) 63 4,479 43
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Temiladra; in 249	- 53 41265
Madicorin Tuticoris	. 662. 69
Tues ports	195 4,482 22 1,152 = 33
Cincil	100 300 300
Other Production 5,037	
Positiva Predistram 5,482	
	2,022 307 156 289 54
Positihitty desh : 5,037 Andira Process : 482	30,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
750 n 173din	
2,00	693 1.785 263 19.836 1,435
Oring dip	691 1,785 602 19,05
	100
	200 200
Origin Paradin Other Ports Other Ports West Brasel: 2,469	5,622 29,003
West Braget 31.626	ties e
130 117	Mic- 316
manale (Manageriale VI)	
	,
10:30	•
Calculta Total (A+B) Total (A+B)	`

Maritime States/U.T. Ports	U.K.	West Germany	U.S.S. R.	African Coun-		82
		·		tries	N	Z.,
*						
(1)	(10)	(11)	(12)	(13)	(14)	(15)
A-WEST COAST	456	101	581	119	20	2,413
Gujarıt 2						
Kindla Otter Ports	11		119	8	_	512
Mahirashtra : Bonbay Other Ports	120	42	116 190	94	9	451 55
Goe !		37	130			23
Mermugao Oner Ports		4	3		_	1,005
Karatska t			46		(0.01	7
Mingalore Other Ports Tiran 1		3	39		(0 3)	290
Cochin Otter Ports	2)	14	67 1	17	11	77 3
B-EAST COAST	160		471	145	62	1,886
" Tomi Nadu :	-			•	•	COT
Midras	42	2 4	54	6	2	605 38
Oher Ports .						28
Andtra Pradesh :	• -					
Visakhapatnam Cther Ports	. 3	2 2 6 3	115 59	(0·3)	=	105 56
Orlin r Faradip						870
Other Ports Wat Bengal	-		=		_	
Galcutta	78	36	243	134	60	184
Toral (A+B)	. 61	G 154	1,052	264	82	4,299

Table No. 11(14)

TURN-ROUND TIME OF SHIPS AT MAJOR FORTS
(1980-67 to 1972-73)

Major Ports	1966- 67*	1967- 68*		1968-	196µ 70**
(1)	{2}	(3)	,	(4):	હેલવા (1)
WEST COAST	ووادس مدينه والمواجد ويندود ودورات			- 4.	2. 元的
Kandia .	11.92	9.72		7.70	4.12
Bombay .	6.80	7-75		6.69	5.49
Mommicao	5-52	7-16		8.70	9.50
Cothin .	6.31	G-18		.6.37	111
EAST COAST				•	130
Madras .	7.81	8-39		8.00,	6.2
Vlakhajima	m 7-21	7-47	**	6-13†	5.50
Paradip .				,	6.11
Calcutta .	•••	12-20		7.64	7-32

^{*}Source : Bombay Port Trust, Monthly Bulletin Nov. & Dec. 1970. *
**Figure have been computed on the basis of the statistic supplied by its
respective Port Trusts.

the supplied by Vitaliapatham Port Trust.

TURN-ROUND TIME OF SHIPS AT MAJOR PORTS
(1966-67 to 1972-73)

1970- 71**	1971- 72**	1972- 73**
(6)	(7)	(8)
1	·····	
. 4.95	6-83	7.09
. 5-68	6.20	7-43
. 10-40	10.64	9.58
4.72	4.88	4.87
. 6-39	7.19	6.31@
. 5.85	5.23	4.46
10.91	7.60	9.73
. 7.40	7.58	7.41
	(6) . 4.95 . 5.68 . 10.40 . 4.72 . 6.39 . 5.85 . 10.91	71** 72** (6) (7) . 4.95

[@]Covers only time taken at beaths and waiting for borths.

,1,610.

^{**} Figures have been computed on the basis of the statistics supplied by the respective Port Trusts.

TABLE No. 11(15)

REVENUE ACCOUNT OF INCOME AND EXPENDITURE OF MAJOR AND OTHER PORTS (1970-71 to 1972-73)

(Rs.in lakhs)

						1	970,71	
Maritime States Rever U.T./Ports							apenditure	Surplus (+) Desicit (-)
	(1)				•,	.(2) .	(3)	ر غ) (4)
A_WEST COAS	T			•		• •		
Gujarat:								A second
Kandla .	•			•	•	241.5	258-8	-17.3
Other Ports	•	•		•		179.6	323 6	—144·D
Maharashira :				•	٠			
Bombay					•	2,513.9	2,204+3	+309.6
Other Ports	•	•	•	• •		·-6•6 ·	49.7	43.1
Goa :							. A.	
Mormugao	•		•			286*2	201.2	`+85°0`
Other ports	•	•	•	•	•	•••		
Kernelcha 1 1							• '	· · · · · · · · · · · · · · · · · · ·
. Mangalore		•	•			9•0	10.0	-1.0
Other Ports	•	•	•	•	•	7.7	11.7	4.0
Kerala t								
Cochin, .		•		•		421.7	362.6	459-1
Other Ports	•	•	•	•	•	8.2	10.6	-2.4

,		1971-72			1972-73			
Maritimo Statesi U.T./Ports	Revenue	Expen- diture	Surplus (±) Deficit (—)	Revenue	Expen- diture	Surplus (+) Deficit (-)		
(1)	(5)	(6)	(7)	(8)	(9)	(10)		
A_WEST COAST Gujarat:								
Kan Ila Other Ports .	. 270·9		+4.2			+14.6 79.5		
Maharashira : Bombay Other Ports	. 3,043.6	2,520·7	1-522-9	2,972.9	2,488.9	+484.0		
Gen : Mormugao Othre Ports .	. 275.0		±63·2 3·4		232*5	+111,7		
Karrolaka: Mangaloro Ottor Ports	, 10·9 , 8·3	12·7 5·6	_1·8	15*8 8*0	16•5 8•1	_0·7		
Kerols : Ordin Order Poets .			 3•1	10.2	13*3	 3·1		

^{*}Less Transfers to Reserve etc.

Employers Welfare Fund = Rs.0.2 lakirs.

Repayment of loans form Govt.=1.4 Lakirs.

Actsurplus = Rs.2.6 lakirs.

10ver and above an amount of Rs.27.2 lakirs have been met from Poet

Depreciation Receive funds to replace equipment etc.

TABLE No. 11(15)-Contd.

(1)						(2)	(³) ,	(4)
B_EAST COAST					*******			
, Tariil Nadu :								
Madras .		•	•			1169.7	844.2	+325*5
Tuticorin .				•		50.0	42.4	4 8.0
Other Ports	•	•		•	•	9•4	11.0	- 1.6
Pondicherry .					•	3•4	2.9	+ 05
Andhra Pradesh 2								
Visakhapatnam						915.2	661.0	+284*2
Other Ports						16.7	. 19	+14.8
Orissa :								
Paradip .		•	•	•	•	177•9	180-9	3.0
West Bengal :								
Calcutta .						2366-1	3264.6	-898.5

(1)	3 4 5 5 4 6	(5) ² 7-27	(6)	71 (7)	(8)	(9)	(10)
EAST COAS	T:	'		* >=			
Tomil Nodu ?	qi legi	~ n	i in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	, 4		٠٠,	* **
Madras		1247.9	1250.3	-2.4	1152.1	1212.2	-60.1
Tuticorin	1.34	39.2	39.5	-0.3	40.0		7 • 7
Other Ports		7.3	8.3	-1.0		***	***
Pondicheny ?	₹.	3.4	2.7	+0.7	2+8	6.3	. 8۰5نت
Andhra Prades			٠.	•			. →,
Visakhapat		. 1087*9				820.7	+152.2
. A Other Port	3	a . 9.6	. 2.1	4.7.5	- 11-1	7.3	. 2.8
Oring :	,						
Paradip	•	. 193-1	366•8	-173.7	209.2	517.5	-308-3
West Bengal					•	· (-35 '	
Calcutta		3042.0 4	543•6 -	-1501.6	3217-1		
							
#Includes		payment of		ı	: Rs.		. lakhs
	2. T	ransfers of l	Reserves	etc.	: Rs.	83.51	lakhs
			Total		; Rs.	182.62	lakhs.
			* **		·		-

TABLE No.11(16) " "

REVENUE ACCOUNT OF INCOME AND EXPENDITURE OF MAJOR PORTS BY MAJOR ITEMS (1972-73)

(Rs. in lakhs)

				By Sou	ices ,
Maritime States	Total Revenue E	Total xpenditure	Surplus (+) Deficit -	Ports & including	Dock Pilotage
		•	(—)	Revenue	Expen- diture
(1)	(2)	(3)	(4)	(5)	(6)
-WEST COAST :					
Gujarat : Kandla Maharashira :	315*0	300.6	+ 14.6	29.3	99•0
Bombay	- 297219	2488.9	+484.0	258.0	507•6
Goa : Mormugao Kerala 2	344.2	232.5	+111.7	81.5	8115
Cochin B_EAST COAST		•••	•••	•••	. , sub
Tamil Nadu : Madras Andhra Pradesh :	1152-1	1212-2*	60.1	88.1	131-2
Visakhapatnam Orissa 11	972.9	820.7	+152.2	93*2*	183,4*
Paradip	209•2	517.5	-308.3	6.0	212•4
Calcutta	3217-1	3962∙2£	£ —745°1	323.6	1,062.2
• Includes : 1.	Repayment o	f loans .		(Rs. i	nlakiis) 99° 1
<u> </u>	Transfer to R	eserves .	• •		83.5
, · · · ·	Total .			• •	182,6

TABLE No. 11(16)-(Cortd.)

,		By Sources (Contd.)					
Maritime States!	Ports of Dock including	Cargo handling & Warehouses					
5 1 ~ · ·	pilotage (contd.) Surplus(+) Deficit ()	Revenue	Expend:-	Surplus (+) Deficit ()			
(1)	(7)	(8)	(9)	(10)			
A-WEST COAST :	***************************************						
Gajarat : Kandla	69.7	195•9	60.9	+135.0			
Maharashira :	•09.7	193.9	00 5	1 70010			
Bombay	249.6	1812.1	998•3	+813.8			
Mormugao		219.0	25*9	+193•1			
Cochin RLEAST COAST;	• •••	***	•••	***			
Tamil Nadu :	49٠1 ،	902.7	406*0	+496•7			
Andbra Pradesh e Visakhaparnam	-90.2	708-8	270-1	+438,7			
Orista : Paradlp West Bengal :	206.4	148•5	97•5	+51.0			
Calcutta	738-4	1694.6	95017	4743.9			

Maritime States	11 2015	lailways		Land and	i Bidg
STT TO IDAHLA	evenue	Expen-l diture,	Surplus (+) Deficit (-)	Revenue	Expen- diture
		·• · · · · · · · · · · · · · · · · · ·	-		4 Y Y
(1)	(11)	(12)	(13)	(14)	(15):
	30 \$	\$1.7	•	•	ا المساود: المارية
rajaral Kandla	2175	∵. g•002	-0.002	22.1	20.9
Maharashira Bombay.	150.8	215•9	- -65•1	327•5	140,0
God . Mormusao .	23.8	24.0	-0.2		10.8
Kerala : Gochin :: ***	Leight imm	پسور ۽ ر			ر در در در در در در در در در در در در در
EAST COAST:	រូកដូច	:			4
Tamil Nadii 1 Madras	771	79•7	2.6	8.9	16.3
Andhra Pradesh : Visakhapatnam(2)	103-7	57-8	+45*9	26.6	25.7
Orista : Paradip				4.0	36.0
West Bengal ? Calcutta	311-7	379.6	-67-9	258•3	50.2
					in lakhs)

115.80

TABLE No. 11 (16) - Contd.

		By Sou	arces (Cont	d)		
Maritime/States/ U./T./Ports	Land & Bldg.contd.			Finance & Miscel- lancous		
	Surplus (+) Deficit ()	Revenue	Expen- diture	Surplus (+) Deficit ()	and General Adminis- tration Expendi- ture	
(1)	(16)	(17)	(18)	(19)	(20)	
A-WEST COAST:						
Gujarat :						
Kandia	+1.2	67.7	67*4	+0.3	51.8	
Maharashtra:						
Bombay .	+187.5	424.5	247.5	+177.0	379.6	
Goa : Mormugao Kerala :	4*1	13.2	20:5	—7· 3	69•8	
Cochin	•••		***	***	••	
B-EAST-COAST:						
Tamil Nadu: Madras	7.1	75.3	247'8	-172.5	148.6	
Andara Pradesh : Visakhapatnam	+0.9	40.6	159*1	118'5	124,6	
Orissa : Paradip	32.0	50.7	1 *89	-17.4	103.5	
West Bengal: Calcutta	+208-1	164.8	571.7	-406.9	832.3	

SECTION 12 : SHIPYARDS

SHIPYARDS AND SHIP REPAIRS

Indiahas got an age old tradition in building sailing vessels whose development is looked after by the Directorate General of Shipping. Modern ship-building of our ocean going vessels commenced in 1946 with the establishment of the Hindustan Shippard at Visakhapatnam. There are five shipbinding undertakings, all in the public sector. The Mazzaon Dock Ltd., together with its subsidiary, the Goa Shippard Ltd., and the Garden Reach Workshop Ltd. are under the management of the Ministry of Defence. The Hindustan shippard and the Cochin Shippard which is under construction are looked after by the Alinistry of Shipping and Transport.

The Ship Repairs industry in India is an age old activity, the earliest undertaking being M/s. Mazgaan Dock Ltd., which was established in 1774. There are about 188 hip-repair undertakings which undertake repairs to ocean going ships. Of these, 7 are on the West-coast and 11 on the East-Coast The eighteensh ip-repairyards include the public sector units viz; M/s. Mazgaan Dock Ltd., M/s. Garden Reach Workshops Ltd., and M/s. Ilindustan Ship-rard Ltd., which undertake construction of ships for various purposes. In addition, some of the major ports have also dry dock facilities for; undertaking sepairs to ships.

TABLE No. 12(1)

PRODUCTION OF SHIP-BUILDING INDUSTRY IN PUBLIC SECTOR (1958-69 to 1972-73)

							•	
Si. No.	Name of the takingly	Name of the Under- taking/year				Ship Repairs	Gen. Engine- ering & Misc. Work	Total "
(1)	(2)			(3)		(4)	(5)	(6)
2	Hindustan Shippe 1969—69 1969—70 1970—71 1971—72 1972—73 Mazzan Dock 1968—69 1969—70 1970—71 1971—72 1972—73 Garden Reach I 1968—69 1968—69		•		639 902 1117 1468 2318	323 308 453 561 537	109 83 66 78 43	711 697 816 902 1276 1071 1373 1636 2107 2896
	1970—71 1971—72 1972—73	•	•	•	561 597 393	205 251 247	732 853 1032	1498 1701 1672

Tante No. 12(1)-Gonid.

(1)	(3)	(4)	(5)	(6)
4 Goa Shippard Lid.	1000	4		
1968-69	35.	36	2	73
1969—70	. 37	38	2	77
1970-71	56	40	3	99
1971—72	78	36	4	118
197273	. 72	53	9	134
5 (a) Rajabagan Dockyard.			,	
196869	. 11'	. 61.	16	88
1969—70		63	18	81
1970-71	. ' 19	60	33	112
1971—72	. Neg.	108	45	153
1972—73	, ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	145	95	247
6 (b) Tetal for all undertaki	ngs.			
1968—691 . · · ·	. 887	649	372	1903
1969-70	1328	619	447	2394
1970-71	1753	758	834	3345
1971-72	. 2143	956	980	4079
1972—73	. 2790	982	1179	4951

⁽a) Difference between opening and closing balances for work in progress has not been taken into account.

⁽b) Excludes HSL.

TABLE No. 12(3)

TIME TAKEN FOR CONSTRUCTION AT DIFFERENT STAGES OF SHIP-BUILDING IN HSL (1916—30th June, 1974)

		Name of the Ship					taken for nonths)	t the ship	
•	Name of the	ie Shi	Þ		DW	Ke	om el to mching	From Launching to delivery	Total Temo
1		2			3		1	5	6
1	Walchand .	•	•		Lan	id- Craft	2 • 4	2.5	4.9
2	Shants .				Lau		9-0	0.6	96
3	Vidyut .	•	•	•	Lau		100	43 0	53 0
4	Adyar .				(a)	242	15 1	20 8	35
5	Kutubtari		•		(,	245	18 8	5+0	23 (
6	RSV Haldra			•		360	42 B	9.5	52.
7	Dhruvak	Ť	·		(a)	500	29 6	16 0	45
8	Darahak .		•		,	611	24.6	61-9	86.
9	T. S. Rajend	ra .				946	18-1	10.2	28
10		•				4000	11 5	16.3	27
ıi			•			5000	20.0	9.2	29
12	Jazmitra .					5000	10-2	11.2	21
13		stry	•			6000	12.2	11.5	23
14	Talvilar					7000	12 3	10.2	22
13						7000	17.		27
11						7000	15.		23
1					•	7000	15.0		23
1	8 Jalavishnu					7000	22.	5 6.7	29

1	2			3	4	5	б
19	Bharatraitra .	•	•	8000	5.9	3.2	9-1
20	Jalapustna .			0000	6.4	3.3	9-7
21	Jalapadma ,			8000	7.6	4-1	11.7
22	Jakrani			0000	7.2	5.8	13.0
23	Julapalka			8000	11.0	3.2	14.2
24	Interpentit			8000	10.0	3.5	14.8
25	Jalapenap .			0000	9.6	5.4	15.0
26	Jafaprakash	,		8000	11.4	4-4	18.8
27	Jalaprabha			8000	14.9	4 6	19.5
28	Pharatrantus .			8000	13 2	106	23.8
29	State of Orissa".			8000	14.3	10.5	24 8
30	Jalaputra .			0000	15-6	93	24.9
31	State of Kutch .			8000	18-9	7.9	26.8
\$2	Jalansha .			0000	20 7	7.4	28-1
33	State of Utter Pradest	1		9590	11.9	12.5	27-4
34	State of Rainsthan			9500	15 2	12.6	27.8
35	Vishea Nicht .			9500	15 8	12.8	28•G
36	State of Punjab			12300	16 5	117	28 2
37	Vishta Mangat			12300	15 4	15 2	26.6
38	Vishva Prem			12300	15.8	13-3	29-1
39	Vishva Maya	•		12300	18.5	12.8	31.3
40	Vishva Shanti	•		12300	21.9	116	33-5
41	State of Madhya Prac	lesi	•	12669	21 2	18 6	39 8
42	A ALMAN WILLIAM .	•	• •	12682	23.7	11.2	34.9
43	Vishra Te,	•		12682	28 9	12 0	40.9
44	anett T/TIT			12709	17 6	19 4	37 O
45	Vishva Bhakti	•		12733	14-7	9.5	24 2

THELE No. 12(3)-Con.ld.

1	2		3	£	5	6
46 47 48 49 50 51 52 53 55 55 56 66	Jala Kendra Vishva Dharma Vishva Vikrari Vishva Shakt Vishva Darshan Jala Kanta State of West Bengal State of Mysore Vishva Shobha Vishva Seva Vishva Sidhi Bombay Duch Il		12713 12852 12891 12881 12900 12883 12912 12915 12923 12959 12972 Dreds 137685 13967 13971 13986	22 7 23 5 20 1 17 1 12 3 19 1 26 2 27 0 24 9 19 4 20 1 22 7 10 5 14.2	16.0	41 1 29.9 27.2 27.8 21.2 30.7 59.2 42.9 27.0 31.3 52.5 50.2 18.5 50.2 16.10.73

(a) GRT

⁽b) Date of deliver)

TABLE No. 12(4)

NO. OF INDIAN AND FOREIGN VESSELS REPAIRED AND EARNINGS FROM REPAIRS* (As on goth June 1974)

E SA PO MAN COM CONTRACTOR	Indian	Vessels	Foreign Vessels		
Name of the Undertaking	No. of vessels	Value (Rs. in lakhs)	No. of Vessels	Value (Rs. in Lakhs)	
Harry Co.	(2)	(3)	(4)	(5)	
A-WEST COAST Yards		•			
1. Goa Shipyard Ltd.	86	9,04	13	1.53	
2. Mazgaon Dock Ltd. (a)	310	•	260	191.00	
9. Glovanola-Bluny Ltd	310,	370,21	200	131.00	
Pvi. Ltd.	outsic	ompany does le repairs exc sir own vessel	ept for 🖙	ertake nny isual repair	
B. EAST COAST Yards 5 Hindustan Shippard Ltd. 6. East Bengal Engineering Works	75	114,87	11	0.80	
	(Dec)	p Sen Vessels sed on 3-5-19	Repairi 966.)	ag Division	
7. Binny Ltd. (Engg. Division Madras Works)	. 73	12,61	2	2.70	
8. C. I. W. T. C. Ltd.	70	38.00	•		
9. Ching wah & Co.	49	36.41	31	6 5,04	

For reporting Undertakings only.

FIXED ASSETS OF SELECTED PUBLIC SECTOR SHIP-BUILDING

	- e* t		. 10	an Shipya 1973-74	rd Ltd.	Maragon Dock Lad			
	Vzzela		Gross block at cost	Depre- ciation so far written off	Net block	Gross block as cost	Depresciation so for written off	Need Seed	
	(1)		(2)	(3)	(4)	(5)	(6)	(7),	
. Lar	2đ .		1.42	•	1-42		7.1	ر در	
Bui	ldings do	railway	7					1. 1/2 2. 1 2. 1/2 2. 1/2	
ett	ing, housi	IIX CSCA	790.09	192.87	597-22	636.53	63 58	72.7	
sid etc		•	. 790.09	192·87 258·91				~4.	
sid etc . Pla	B	higery	. 790·09 667·54	258-91	408-63	579.07	186-92	92]	
etc Pla Fur 5. La	nt & Mac	higery fixtures boats larris	. 790·09 667·54 : 11·05	258-91 5 - 5-24	408·63 5·81	579.07	186-92 9-18	92]	
Fla Fur Fur 5. La	nt & Mac ralture & i nunclies, otor cars,	higery fixtures boats larris	. 790·09 667·54 : 11·05	258-91 5 5-24	408·63 5·81	579·07 49·03	186-92 9-18	92 · 1 39 · E	
rid etc . Pla . Fur 5. La m & 6. Li	nt & Mac ralture & nunclies, otor cars, yans etc.	higery fixtures boats larris	. 790·09 667·54 : 11·05	258-91 5 5-24	408·63 5·81	579·07 49·03	186-92 9-18	92 · 1 39 · E	

⁽a) Capital works in progress

THE KIND OF STREET	1				(1.001 -111		
	' 1	Reach We Limited b)(1972-7	•	Central Inland Water Transport Corpn. Ltd. (1972-73)			
Assets	Gross block at cost	Depre- ciation sofar written off	Net block	Gross block at cost	Depre- ciation so far written off	Biock	
(1)	(8)	(9)	(10)	(11)	(12)	(1 3)	
Land	9.60		9.60	12-30		12.30	
t. Buildings, docks, aligness, roads, railwr ways, roads, railwr siding, housing esta etc. 3. Plant & machinery	230·38 610·38	55 · 56	174·82 461·70	27 ·83 65 ·62	5·90 16·49	21.93 49¢13	
Furniture & Fixture		15.23	21.35	3.56	1.62	1.94	
5. Launches, boat, mor cars, lorries & var etc. 6. Live stock	. 96·20	46.02	50-18	293·79 Neg.	61.62	232·10	
7. Monopoly lights						٠, ,	
8. Assets under constru tion	10-				* 111	سند: الله سند	
Total .	983-14	265-49	717-65	403.03	85.63	317-40	

⁽b) Including cost of buildings amounting to Rs. 25.31 lakhs on land belonging to the Govt. of India.

Table No. 12 (5) - Contd.

		Total	
Assets	Gross block nt cost	Depre- ciation so fat written off	Net block
population and the second	(17)	(18)	(19)
Land F	. 42.57	••••	42.57
2. Buildings, docks, slipway roads, railway siding & ho sing estate etc.	/s, u- . 1707∙88	314-62	1393-26
3. Plant & Machinery .	. 1907-44	590-22	1317-22
Furniture & fixtures	• 109.70	31.88	71.32
5. Launches, boats, motor, c. lorgies & vans etc.	nts. 5220	150.75	369 - 45
S. Live stock		-	Neg.
7. Monopoly rights	1.77		1-77
8. Assets under construction	93,54	nun.	93.54
TOTAL	4376-10	1086-97	3289 - 13

SECTION 13 : MERCHANT NAVY TRAINING

'TABLE No. 15(1)

INSTITUTIONS FOR MERCHANT NAVY TRAINING

Cla Per	tegory of sonnel	Type of Tra- ining/Institu- tion	Name of Ships Institution	Location/ State	Management
21	(1)	(2)	(3)	(4)	(5)
		Pre-seaTrain- ing for service: in Deck and Engine Room Departments of Ships	ship Non La- kshi 2. Training	(Gujarat) Vishakapat- nam (A P) Calcutta	C/oIndia(MO) Shipping & Transport
	Candidates for grades of professional examination conducted by M/OShippi & Transpor	tution in Na- vigition and s Engineering	Lai Bahadur Shahstri Nau- ticai & En- gineering Col- lege	(Maharashtra)	••
3.	Cadeta		Training ships Rajendra	Bombay (Maharashtra)	**
4.	Engineer Apprentices		Directorate of Marine Engi- neering Tra- ining.	(Maharashtra)	

TABLE No. 13(2)

CANDIDATES TRAINED FOR DIFFERENT COURSES DURING THE

					Eegin"	ering	Executive		
				đi	reti	No of trained in DME&T	No of direct entrants	No. trained in T.S. : Ra- jendr	
	(1)				(2)	(3)	(4)	(5)	
					130	92	·40		
•	•	•	•		19	94	3	i 79	
٠	•	•	١.		163	3 9	3 6	s B	
•	•	•	•	-	19	9 9:	5 8	D → 81	
•	•	٠	•	•	-		3 14	3 ₀ 7	
	•	•	•	•	28	-		2@ 7	
		Year (1)	Year	Year	Year di	Year No of direct entrants (1) (2)	Year No of direct trained in DME&T (1) (2) (3) 130 92 191 94 163 99 199 99 240 103	Year No of direct entrants DME&T entrants (1) (2) (3) (4) 130 92 40 191 94 3 163 93 6 199 95 8 240 103 14	

[@]Includes 27 Seamen Ratings who were taken as direct entry apprentices for executive training for one year.

TABLE No. 13(3) 14.5

NJ. OF MERCHANT NAVIGATION OFFIGERS EMPLOYED ON INDIAN SHIPS (1968 to 1971)

Category	1958	, 1969	1970	197
Nautica !		į		
1. Master foreign going	404	301	392	298
2. Extra Master (F. G.)	g		6	6
3. First Mate (P. G.)	223	145	167.	118
4. Second Mate (P. G.)	1235	148	206	113
5. Master Hame Trade	50 [47	43,	31
6. Mate Home Trade	32	30	94	17
TOTAL .	.953.	671.	., 848 _{?'}	\$83
Engineers	. ,			•
1. First Class	306	245	310 t m	220
2, Extra First Class				64
3. Second Class	297	255	288	, 288
TOTAL:	603	500	598	580
L. Uncertified				
. I. Nautical cadets	914.}	189	195	504
2. Eng. cadets		453	390	59
TOTAL	914	636	586	563
GRAND TOTAL	2470	- 1007	2031	1726

TABLE No. 13(4)

EMPLOYMENT POSITION OF STAMEN REGISTERED WITH SEAMES EMPLOYMENT OFFICES AT BOMBAY & CALCULTA AND THE NUL EMPLOYMENT BER OF JOBS AS ON IST JANUARY

	Foreign g	oing Sen	man's		rade Semma
Contraction of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t	1971	1972	1973	1971 1	972 1973
W. A. COL	(2)	(3)	(4)	(5)	(6) (7)
10 (K) (K) (K) (K) (K) (K) (K) (K) (K) (K)					्राप्ट्रीकृति
L BOMBAY	n 28,427	29,164	29,267	1,264	1,180 1,05
(a) Number of Seams (b) Number of jobs	19,077	19,03	16,817	646	670 64
it. CALCUTTA	orn 12,483	12,13	5 11,75	4 192	203 2
(b) Numberol Jobs	7,26	3 6,44	4 6,56	6 110	139
THE TOTAL	men 40.91	0 41,25	9 - 41,02	1 1,456	1,383 1,2
(a) Number of Sch	26,34	10 25,4			

DEPARTMENT WISE MINING OF PECISTERED SEAMEN AND NUMBER TABLE No. 13(5)

перли	Department.Wise number of registered Seamen and number Of 1008 (1971—1973)	ASE NUA	CO E	OF REGISTS OF JOBS (1971—1973)	TERED !	SEAMEN	N GNV	JMBER	si .
		1761	,		1972			1973	
CATESOLIES	Bombay	Bombay Calcutta Total	Total		Calcutt	Bombay Calcutta Total Bornbay Calcutta Total	Вотрау	Calcutta	Total
(1)	(2)	(3)	(4) (5)	(5)	(9)	(6) (7) (8) (9) (10)	(8)	(6)	(10)
1. Deck Department									-
(1) Registered	. 11,483	5,184	5,184 16,727 10,225	10,225	5,093	5,093 15,318	9,937	4,991	1 1,928
rdo[lo cN (h)	6,339	3,079	9,430	6,225	2,839	190'6	9,106		8,922
2. Engine Debartment									
(1) Registered	5,708	3,770	9,473	5,297	3,653	8,950	5,239	3,556	8,795
11) No. of jobs	3,178	2,014	5,192	3,127	1,765	1,892	3,162	1,663	4,825
3. Saloon Department									
(1) Registered	8,537		3,329 12,086	8,529	3,389	3,389 11,918	8, 109	3,207 11,116	11,116
(1s No of sabs	. 5,738		2,170 7,908	5,615	1,810	7,155	5,407	2,087	7,497
4. General purpose									
(1) Registered	. 2,719	Page 1	2,719	5,113	i	5113	5,682	ı	5,682
(11) No. of Jobs	3,802	J	3,802		I	1,068	1,142	I	4,142

SECTION 14: OVERSEAS SHIPPING INDUSTRY

SHIPPING INDUSTRY

Both Goastal and Overseas Shipping are subject to State regulation and a sistance. The important Government agencies regulating and assisting the shipping industry are briefly described below:

(1) Directorate General of Shipping

The Directorate General of Shipping in the Ministry of Shipping and Traosport entrusted with the administration of the Indian Merchant Shipping Act 1958, executes the Government policies on shipping. The important functions of the Directorate include the following :

- (a) Observance of International Conventions relating to maritime matters and measures to ensure the safety of life and ships at sea ;
- (b) Administration of Indian Merchaot Shipping laws, and all matters affecting merchantshipping and navigation, such as issue of a general licence, aspecified period licence, or a specified voyage licence for the operation of a ship in overseas trade;
- (c) Development of Indian Shipping Industry and sailing vessels industry ... and regulation of freight rates in overseas trades;
- .. (d) Provision of Merchant Navy training facilities or the officers and ratines regulation of employment of seamed and welfare of scamen ;

The important institutions and offices which work under the direct administrative cootrol of this Directorate are ;

- (a) Training Establishments for Merchant Navy personnel
 - 1. T. S. Dufferin, Bombay.

ત્રફર્મ ફેઇપ્લર્ડ

- 2. Training Establishments for ratiogs at Calcutta, Visakhapatanam and, Navalakhi. 1 · 1 · 3 · 1 · 1
- 3. Lal Bahadur Shastri Nautical and Engineering College, Bombay,
- 4. Directorate of Marine Englocoring Training; Calcutta and Bombay.

. .;

- (b) Employment and Welfart of seamen &
 - 1 Seamen's Employment Offices, Bombay and Calcutta.
 - 2. Seamen's Welfare Offices at Bombay, Calcutta and Modras.

- 3. Offices of the Principal Officer, Mercantile Marine Department, Bombay, Calcutta and Madras
- 1 Shipping Offices at Bombry and Calcutta.
- 5. Regional Offices (Sails) at Bombay, Tuticorin, Calicut and Jamnagar,
- 6 Preight Investigation Bureau with Offices at Madras and Calcutta

(2) Shipping Development Fund Committee

In March, 1958, under the Merchant Shipping Act, 1958, a statutory nonlapsable fund called the Shipping Development Fund was established by the Geotral Government to facilitate the growth of Indian tonnage through grant of loans and financial sustance to Iodian Shipping Companies for acquisition and maintenance of ships.

Thereceipts, of Fund, as provided, consists of:

- (a) Grants and loans received from the Central Government.
- (b) Repayment of Indian Companies of the loans taken from the Fund-

42

- (6) Interest on loans or dividends from investments made from the Tund
- (d) Such other sums as may be received for being credited to the Fund.

The Fund is operated by a Committee known as Shipping Development Fund Committee (SDFQ) constituted by the Central Government. The Secretary of the Ministry of Shipping and Transport is the ex-officio Chairman of the Committee, other members being the representatives of the Ministry of Floance and Ministry of Law, Government Director on the Board of Indian Shipping Companies, Director Geograf of Shipping etc

The type of assistance provided by the Committee to various shipping companies 18 as under:

- 1. Loaos for acqoisition of ships.
- 2. Guaranteein respect of ships acquired under extended terms of payment-
- 3. (i) Guarantee to pay instalments of deferred portion of price to the sellers/shipyard on behalf of the Indian Shipping Company.
 - (11) Counter-guarantee to pay instalments of deferred portion of price to scheduled Commercial Bank where gnarantee to sellers ship-yard has been given by such a Bank on behalf of the Indian Shipping; Company. Guarantees are issued only when loans are sanctioned.

The quantum of SDFC loan is restricted to 75% of the purchase price in the case of second hand ships, 90% in the case of new ships ordered from abroad and 95% for new ships ordered from Indian yards.

The rate of interest charged on tonns granted by SDFC ix 8% per antion payable halfyearly. If borrower pays the amounts due by the prescribed num payante many and the obligations under the loan agreement and other docuunces and annual arrange of loan, a lower rate of interest is charged.

The period of repayment of SDFC loan for acquisition of second hand ships shall not exceed a prescribed proportion of the residual of the incometaxlife of a ship (the life of the ship taken at 20 years). The maximum period familiation of loan is prescribed and is generally higher for ships ordered of amortisation of loan is prescribed and repair years.

The other important terms and conditions for availing the SDFC assistance are :

- (i) Total cover required to be furnished is 133 1/3 % of the outstand-Total cover required to be turnished is 133 112 % of the outstanding amount of loan or of the gnarantee, if any, issued in respect of the loan, whichever, is higher. The ship in respect of which loan, is loan, whichever, is higher. The ship in respect of which loan, is sanctioned is to be given in first mortgage to the Committee. The short-sanctional light is to be given in first mortgage to the Committee. sanctioned is to be made good by furnishing other acceptable security to the SDFC Ships offered as security are required to be maintained in highest classification and kept insured both for marine and war risks in highest classification and appendix to both for marine and war risks for an amount to be specified by the SDFC for any higher amount;
- (ii) For Companies with an equity capital of Rs. 10 million or more, the Debt Equity ratio should be 6:1 while for companies with an equity capital offess than Rs.10 million, it should be 4:1; and
- (iii) Companies availing SDFC loans are required to deal exclusively in shipping business and accept nominees of the SDFC on their board of Directors.

(3) Shipping Coordination Committee'

The Shipping Coordination Committee (SCC) in the Ministry of Shipping and Transport serves as a liasion between the shipping interests and industry and Transport serves as a massion octween the snipping interests and industry in the one hand, and the Central, State and other government agencies seeding shipping space on the other. The important functions of this Committee are :

- (i) To act as a Clearing House of information on all cargo shipped on Government account with a view to making the most effective use of the available Indian tonnage;
- (ii) to advise on the best and the most economical shipping arrangement possible for the movement of Government owned cargoes when Indian Shipping is not available i.e., whether non-Indian yessels should be chartered and if so, whether on time basis or voyage basis ete; and

(iii) to coordinate and advis on all policy matters relating to shipping neluding the development of Indian Shipping

The Chairman and Secretary of the SCC are the Secretary and the Controller of Chartering in the Ministry of Shipping and Transport, respectively. Its members are the representatives from the concerned Ministries and Government Organisations, Indian National Shippwaers' Association, Shipping Companies (1997).

The Shipping Coordination Committee has a Chartering Wing and a Coordination Wing The Shipping Go-ordination Wing of the Shipping Goordination The Shipping Go-ordination Wing of the Shipping arrangements of the Ministry looks after the shipping arrangements of Government eargers moving in parcels by Conference or non-Cooference for Government eargers moving in parcels by Conference or non-Cooference or no

The Indian Shipping Companies through their inson officers in Delhi kee? contact with the Chief Controller of Chartering in the Ministry of Shipping and Transport regarding availability of cargoes. To minimise the time factor, the Chief Controller of Chartering and his officers might themselves communicate the Chief Controller of Chartering and his officers might themselves communicate it directly with the shipping companies which are liftly to be interested in the carriage of cargoes, the Irdian shipping companies is in a position to carriage of cargoes, the freight rates and terms are negotiated and fixed, except in the case of Conference cargoes, which are carried at the Conference in the case of Conference cargoes, which are carried at the Conference and on Conference terms. In respect of open cargots for which no tariff rates, and on Conference terms are negotiated by the Chief Controller of Chartering with the Conferences.

TABLE No 11(1)

INDIAN OVERSEAS* CARGO AND PASSINGER TRAFFIC CARRIED BY NATIONAL SHIPPING UNDERTAKINGS

(1955-56 to 1972-73)

Year					Cargotra	Mic carried tonnes	(intakli	Overteas passenger - traffic @
					Imports	Exports	Total	carried (in lakh)
(1)			*********		 (2)	(3)	(1)	(5)
1955-56		•	•	•	 6.21	5.46	11.68	•
1960-61					13 04	9.06	22.10	1.33
1961-62					15.77	10.27	26.01	1.31
1962-63	٠				15.54	12.76	28.30	1.29
1963-64					18.14	16.78	31.92	1.15
1964-65					27.66	18.76	46.42	1.22
1965-66					33,92	21.46	55,38	1.13
1966-67					32.92	29,25	62.17	1.13
1967-68	•				39.06	38,22	77.28	0.99
1968-69					46,79	48,94	95.73	1,03
1969-76					50.21	56.94	107.15	0.75
1970-71					45.74	58.40	104.14	0.75
1971-72					43,66	44.92	88.58	0.74
1972-73								0.75

^{*}Does not include the cross trades carried by Indian vessels. ,

[@]Relate to calcular years (e.g. 1960-61 to be read as 1960).

SHARE OF NATIONAL AND FOREIGN SHIPPING UNDERTAKINGS IN rke up national and foreign shipping undertabled India's overseas import[export cargo traffic

INDIA'S OVERSEAS INT	India's Overseas Ourgo traffic	rcentagesh	rcof !	Cargo imports into India (Million tonnes)
(1) 1955-56 1960-61 1961-62 1962-63 1963-64 1964-65 1965-66 1966-67 1967-68 1968-69 1969-70	. 17.71 . 24.49 . 23.22 . 35.61 . 33.74 . 41.08 . 42.94 . 47.11 . 49.79 . 52.34	1 21.3	78. 80	26.77 7 26.77 7 22.65

Notes: (1) The overseas traffic figures of India for the year 1964-65 to 1971-72 are inclusive of the traffic of minor and intermediate parts.

⁽²⁾ The overseas traffic figures of India for the years 1965-66 to 1971-72 are exclusive of traffic carried in sailing vessels. Bunkt traffic is excluded at all posts. traffic is excluded at all ports excepting Bombay.

TABLE No. 14(2)-Contd.

Year				Percentah	eshare of	Cargo - Exports	Percentag	cshare of
	* >			Indian Compa- nics	Foreign Compa- nics	of India (Million tonnes)	Indian Gompa- nics	Foreign Gompa- nics
(1)				(6)	(7)	(8)	(9)	(10)
1955-56		•	•	5.8	94.2	7.05	` 7,7	92,3
1960-61				7,3	92,7	6,63	13.6	86.4
1961-62				9.5	90.5	6,69	15.4	84.6
1962-63	•			8.2	91.8	14.62	8.7	91.3
1963-64				9.2	90.8	13,99	12.0	0.88
1964-65				11.6	88.4	17.16	11.0	89.0
1965-66			,	14.3	85.7	19,25	11.1	88,9
1966-67				12.6	87.4	21.04	13.9	86,1
1967-68				14.6	85.4	23.05	16.6	83.4
1968-69				17.5	82.5	25.57	19.1	, ę.oa
1969-70	•			21.7	78.3	26.96	29.1	70.9
1970-71	•		•	20.6	79.4	29.97	19.3	80.7
1971-72	•	•	•	16.9	83.1	28.42	16.0	84.0

Norrs: (1) The oversean traffic figures of India for the year 1964-65, to 1971-72 are inclusive of the traffic of minor and intermediate ports.

⁽²⁾ The overseas traffic figures of India for the years 1965-66 to 1971-72 are exclusive of traffic carried in sailing vessels. Bunker traffic is excluded at all ports excepting Bombay.

TABLE No. 14(3)

HARE OF NATIONAL VESSELS IN THE GOVERNMENT OVERSEAS BULK CARGO CARRIED IN CHANTERED VESSELS AND GENERAL CARGO CARRIED IN LINER VESSELS

(1960-1972)

(In'000 tonnes)

Calendar Wing Carroin bulk and ship-loads by chartered vessels Carroin bulk and ship-loads by chartered vessels	Calendar	Under the rangement by Shippi Goording Wing	ittmade ing	nngen	rthe arr- centinade arreing	(214-(4)	Indian Vesicls	resert .
Total tonnage (in tonnes) tounage (in tonnes) (1) (2) (3) (4) (5) (6) (7) (8) 1960 . 751		Genera	d liner	and sh	ip-loads		Sa' l	
1960 . 751			Indianaldps	Total	Indianship	s		
1961 179 241 468 172 947 413 43,63 1962 174 105 688 224 862 329 38,2 1963 323 203 530 192 061 395 45,9 1964 314 294 2482 412 2996 706 23,6 1965 416 230 6028 769 6444 999 15,5 1966 234 139 8927 1266 9161 1405 45,5 1967 473 291 8728 1293 9201 1584 17,2 1968 375 223 6364 1253 6739 1476 21,9 1969 468 273 3831 1340 4299 1613 37,3 1971 978 600 5284 1471 6262 2071 33,1	ું (0)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1962 . 174 105 688 224 862 329 38.2 1963 . 323 203 533 192 061 395 45.9 . 1964 . 314 . 294 . 2482 412 . 2906 706 23.6 . 1965 . 416 . 230 . 6028 . 769 . 6444 . 999 . 15.5 . 1966 . 234 . 139 . 6927 . 1266 . 9161 . 1405 . 15.3 . 1967 . 473 . 291 . 8728 . 1293 . 9201 . 1584 . 17.2 . 1968 . 375 . 223 . 6364 . 1253 . 6739 . 1476 . 21.9 . 1969 . 748 . 4553 . 1517 . 4961 . 1765 . 35.6 . 1970 . 468 . 273 . 3831 . 1340 . 4299 . 1613 . 37.3 . 1971 . 978 . 600 . 5284 . 1471 . 6262 . 2071 . 33.1	.: 1960	. 751	155	442	4	1193	159	13.3
1963 323 203 533 192 061 395 45,9 1964 314 294 2482 412 2996 706 23.6 1965 416 230 6028 769 6444 999 15,5 1966 234 139 8927 1266 9161 1405 15,3 1967 473 291 8728 1293 9201 1584 17,2 1968 375 223 6364 1253 6739 1476 21,9 1970 468 279 3831 1340 4299 1613 37,3 1971 978 600 5284 147,1 6262 2071 33,1	1961	. 179	241 .	468	172	947	413	43.63
1964 314 294 2482 412 2996 706 23.6 1965 416 230 6028 769 6444 999 15.5 1966 234 139 8927 1266 9161 1405 13.5 1967 473 291 8728 1293 9201 1584 17.2 1968 375 223 6364 1253 6739 1476 21.0 1969 103 248 4553 1517 4961 1765 35.6 1970 468 279 3831 1340 4299 1613 37.3 1971 978 600 5284 1471 6262 2071 33.1	1962	. 174	105	688	224	862	329	38.2
1965 416 230 6028 769 6444 999 15,5 1966 234 139 0927 1266 9161 1405 13,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 1,7 <td< td=""><td>1963 .</td><td>323</td><td>203</td><td>533</td><td>192</td><td>061</td><td>395</td><td>45.9</td></td<>	1963 .	323	203	533	192	061	395	45.9
1966 234 139 8927 1266 9161 1405 15.3. 1967 473 291 8728 1293 9201 1584 17.2 1968 375 223 6364 1253 6739 1476 21.9 1969 403 248 4553 1517 4961 1765 35.6 1970 468 279 3831 1340 4299 1613 37.3 1971 978 600 5284 1471 6262 2071 35.1	,1964	. 314	294	2482	412	2995	706	53.6
1967 473 291 872B 1293 9201 1584 17.2 1968 375 223 6364 1253 6739 1476 21.9 1969 403 248 4553 1517 4961 1765 35.6 1970 468 279 3831 1340 4299 1613 37.3 1971 97B 600 5284 1471 6262 2071 35.1	1965	416	230	6028	769	6444	999	15,5
1968 375 228 6364 1253 6739 1476 21.9 1969 1969 1970 468 279 3831 1340 4299 1613 37.3 1971 978 600 5284 1471 6262 2071 35.1	1966	. 234	139	0927	1266	9161	1405	15.3
1969 1. 108 248 4553 1517 4961 1765 35.6 1 1970 468 279 3831 1340 4299 1613 37.3 1 1971 978 600 5284 1471 6262 2071 33.1	1967	. 473	291	8728	1293	9201		17.2
1969 1. 108 248 4553 1517 4961 1765 35.6 1 1970 468 279 3831 1340 4299 1613 37.3 1 1971 978 600 5284 1471 6262 2071 33.1	1968	. 375	223	6364	1253	6739	1476 .	21.9
1971 . 978 600 , 5284 1471 6262 2071 33,1	1969	103	248	4553	1517	4961	1765	35.6
2011 1 010 000 1 000	1970	468	273	3831	1340	4299.	1613	
1972 1410 800 5905 1206 7315 2006 274	1971 -	978	600 ,	5284	1471		2071	33.1
	1972	. 1410	800	3903	1206	7315	2006	27.4

SHARES	S. O.F.	PUBÌ ERSE	STG: A	TARE NO. SHIPPING INDI	TABLE D. PRIVA	No. 1	TABLE NO. 14(4) NO PRIVATE SECTOR HIPPING INDUSTRY (A	VS CAN	ERTA 30-6-1	KINGS 973)	Z	10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to
	No. of	rtakings.	Indian	S. S.	COve	Overseas Ships	Total	Overseas (in '000)	900	Overseas (R3. in	as Ear in Lakh	nings s)*
of Trado in ch engaged	Total	Sec. 15	1 -0,	Total	Pub- lic Sec- tor	Pri-	Total	Pub- lie Sec- tor	Pri- vate Sec- tor	Total S	Public Sector	Private
	(3): (3)		€	(4) (5) (6)	9	3	®	6	(10)	(8) (9) (10) (11)	(12) (13)	(13)
Overseas Trade	8	1	-	24	1.1	-	361	1	361	1340	i	1340
Both Overseas and Coastal Trade	#	61	. 73	179	60	90	2171	1159	1012	2171 1159 1012 16140	0199	6610 9530
Torat .	22	2	20	20 203 89 114	60	114	2532	1159	1373	2532 1159 1373 17480 6610 10870	6610	10870
The figures relate to 1971-72-	relate	2	1971-	72-								

Table No. 14(5)

HAJWTH IN NUMBER AND TONNAGE OF OVERSEAS FLEET OF INDIA

(1951—1973)

	((As à	n 31	ear st De	ecem)	ber)	٠		- T	No. of vessels	Total tonnace (in 000 GRT)
-	(1)	•					-	-		(2)	(3)
151	A.F.	*		•	•	\$.		•	•	24	2174
356			•							39	271
18	•	•								70	539
966										138	1,462
367						•				15Ó	1,593
968							•	•	•	169	1,746
969										184	2,001
970		•								181'	g,147 .
971	•								•	193	2,282
972									•.	199	2,416
973 (30th J	ine)								203	2,532

TABLE No. 14(6)

DISTRIBUTION OF NUMBER AND TONNAGE OF ALL OVERSEAS FLEET BY TYPE AND SIZE OF VESSELS

(As on 30-6-1973.)

7		4						((RT 1	n '000)
٠	Size Gro	up	100-	-999	1000-	4999	5000-	-999	10000	19999
Type	(m comp	,,,	No.	GRT	No.	GRT	No.	GRT	No.	GRT
(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Cargo Liner					11	54	100	850	15	171
Bulk Carrier	-		****			•		_		
Small Tran	ps .		`		1	2	14	107	13	151
	•	•							2	24
Ore, Oil Bu	lk Carries	· .		-					5	77
Passenger-cu	m-cargo	•	-	_			4	30	1	18
· IFA:	Types	•			12	36	118	987	36	441

TABLE No. 14(6)-Contd.

13 14 15 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20000	نسند المشار	9999	40000 &		Total;	GRT:
Size Group	No.		GRT	No.	GRT	No.	
A Prince Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t	(10)		(11)	(12)	(13)	(14)	(15)
	.:			1	58	127	1113
Gargo Liners	. 2	6	638	_		26	637 260
Bulk Carriers		_	_	-		28	200
Small Tramps	•	5	140	2	95.		715
Tankers Ore: Oil Bulk Carriers			-	3	137	8 5	48
Passenger-cam-cargo		_					
All Types		31	778	6	290	203	2,532

DISTRIBUTION OF NUMBER AND TONNAGE OF VESSELS IN THE OVERSEAS FLEET OF INDIA BY TYPE AND AGE

IN THE OVERSEAS FLEE	n 30-	6-1973))		(GR	r in '0	00)
Upto		S5		6—1 year	\$	11-yea	rs
Age Group Year No. G		No. G	RT	No. G	RT	No.	GRT —
(1) (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
70-4-1	204	15	139	23.	233	36	284
Bulk Garriers 1	56	5;	119	19	440		
Small Tramps 2	22	4	45	.5	55	8	81 13
Tankers		3	106	. 4	120	1	12
Ore, Oil Bulk Carriers . 1	46	2	92	3	46		12
Passenger-mm-cargo 1	7			. 1	18		
TOTAL . 21	335	29	50	1 55	913	2 40	390

TABLE No. 14(7)-Contd.

the think the second state of the	,	* - '			(GRT in :000)
Age groups	16-20	years	Over 2	0 years	All Ship
Type	No.	GRT	No.	GRT	No. GR
(i) The second	(10)	(11)	(12)	(13)	(14)
Cargo Liners	32	218	5	35	127 [11]
Bulk Carriers	1	23			26 637
Small Tramps	9	56			28
Tankers	1	20		.	250
Ore Oll Bulk Carriers	1	18		-	8 215
Passenger-cum cargo		- -	3 ·	23	5 3 3
TOTAL:	44	335	8.	58	203 0 255

TABLE No 14(8)

DISTRIBUTION OF NUMBER AND TONNAGE OF VESSELS IN THE OVERSEAS FLEET OF INDIA BY SIZE AND AGE (As on 30-6-1973)

Size Age Gre		ıp	upto 2 yrs.		3-5 years		6-10 years		11-15 years	
atze			No.	GRT	No.	GRT	No.	GRT	No	GRT
(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
100 999	•	•			_					
1000 4999									4	12
5000 9999			13	122	16	146	15	138	33	274
0000—19999	٠.		5	54	4	50	17	214	9	104
0000-39999			1	55	5	119	23	560		_
oveda & 0000		•	2	104	4	186			_	
То	TAL	•	21	335	29	501	55	912	46	390

TABLE No. 14(8) _Conid.

(GRT in :000

						10.11.7
			Over 20	years	All Ship	
		,		GRT.	No.	GRT
	No.	GRI			(14) . 3	(15)
	(10)	(11)	(12)	(13)		(سینت
					_{ ,	36
•		19	٠ 1	5		987
•	-	255	7	53	110	.441
••	1	. 18			50	:778
•	2	43	_			290
١.						 2532
		335	8	58	,203	2534
٠	- ,4,	*				,
	•	16-20 No. (10)	16-20 years No. GRT (10) (11) 7 19 34 255 1 18 2 43	16-20 years Over 20 No. GRT No. (10) (11) (12) 7 19 1 34 255 7 1 18 - 2 43 - 1	16-20 years Over 20 years No. GRT No. GRT. (10) (11) (12) (13)	16-20 years Over 20 years No. GRT No. GRT. No. (10) (11) (12) (13) (14) 7 19 1 5 12 . 34 255 7 53 118 . 1 18 — 36 . 2 43 — 31 . 2 43 — 31 . 44 335 8 58 203

TABLE No. 14(9)

GROWTH IN NUMBER AND TONNAGE OF DIFFERENT TYPES OF VESSELS IN THE OVERSEAS FLEET OF INDIA

(GRT in Lakhs)

			1966		197	
	19	1961		RT	No.	GRT
Ship-type	No.	GRT			(6)	(7)
	(2)	(3)	(4)	(5)		
(1)			76	5.82	111	8.97
Tiners .	60	4.23	20	1.50	28	2.51
Ory Cargo Liners	14	0.99	16	3.36	32	7.84
Small Tramps			_	1.06	7	2.3
Bulk Carriers		0.43	4 6	0.43	_	0.3
Passenger-cum-cargo	•		122	12.17	183	22.0
All types of Vesicis	• 6	0 5.00				

TABLE No. 14(9)—Cents

1	ABLE NO.	14(9)— <i>C</i> c	ntå	(GRT in Lakhs)		
Ship-typ ⁶	1972 No.	GRT	197 No.	GRT	No.	GRT (13)
	(8)	(9)	(10)	(11)	(12) ————————————————————————————————————	11.13
Ory Cargo Liners	. 119	9 61 2 68	124 29	10 33 2-68	28 34	2 60 8,52
Small Tramps .	. 30	7·84 2·46	3 3	g.39 2.59	9	2 59 0.48
Bulk Carriers	. 6	0.44	6	0.54		
passenger-cum-cargo	195	23.03	201	24:53		
All types of vestels Yours:—Figure	s for 1961	1966, 19	71 10 19	73 arc as	on Ist A	p

TABLE No. 14(10) GOMPANY-WISE TONNAGE UNDER CONSTRUCTION AS 1-1-1973

	· `				Total	
	Coat	Coastal		Overseas No. GRT		GRT
Name of the	No.	GRT	No.	GKI	No.	
Company		(2)	(4)	(5)	(6)	(7)
- (1)	(2)	(3)				
			34	9.62	42	10.55
A) Public Sector	8	0.93		0.48	5	0.48
S. C. I.			5	-	-	11.03
Mogul Line	8	0.93	39	10.10	.47	11.00
Total Public Sector					,	
(b) Private Sector Scindia India Steamship Great Eastern Chowgule Damodar Dempo				3 1-32 2 0-20 5 0-67 2 0-44 2 0-56 3 0-35		2 0.4
Ratnakar			 	19 3.98	3 ~	19 3
Total Private Sector Grand To		8 0.	 93	58 14.0	8 .	66 1

TABLE NO. 14(11)

TYPE-WISE INDIAN SHIPS UNDER CONSTRUCTION IN INDIAN AND FOREIGN

	3	
4	•	
	7	
•	_	
	ü	
1	E.	
	6	
	ت	

Total Overseas Coastal Overseas No. GRT No. GRT (10) (11) (12) (13)	17 1.61		19 2:11	8 6.93 9 7.5		2000
Goar No.	(1) (2) (3) (4) (5) (6) (7) (7)	Liners	Orefolipulk 3 2'01	Tankers	Passenger-cum-	17 1.91 8 0.93 41 12.18

TABLE No. 14(12)

SCHEDULED OVERSEAS ROUTES FROM INDIA, FREIGHT AGREEMENT AND CONFERENCES AND INDIAN MEMBER LINES

Scheduled Overseas Trade Routes from India	Shipping Lines, Conferences Rate Agreement, thereof	Indian Member Lines
(i)	(2)	(3)
(A) India/Overseas		
1. India/U.S. Pacific	Pacific-India-Pakistan/ Burma-Ceylon/Freight Rate Agreement. Members American President Lines Nedlloyd & Hoegh Lines. American Mail Line. American Export Line. Isbrandtsen Lines.	
2. Indla/Sri-Lankn, Bangladesh & Burma	India/Sri-Lanka, Bangla Desh, Burma Conference	1. Africana 2. Collis Line 3. Hind Shipping 4. India Swamship
	, '! <u>.</u> ,	5. Damodar 6. Kerala 7. Malabar 8. Merchant Steam 9. Mogul Line
*		0. R. A. J. Lines 1. Ratnakar 2. Scindin. 3. S. C. L. 4. S. E. Asia
A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	· 我 " 我 是	5. South India 6. Thakur 7. Tolani 8. Pent Occean

(1)	(2)	(3)
3. India/Middle East	India/Pakistan/Middle East Conference.	1. S.C.I. 2. Scindis 3. India Steamship
4. India/Puland	Indo-Palish Shipping Service	1. S. C. I. 2. Scindia 3. India Steamship
5. IndiajUSSR and Black Sea	Indo-Soviet Shipping Service	1. S.C.I. 2. Scindia 3. India Steamship
(B) West Coast/Ove	rscas	
6. West Coast of India West Asia (Gulf Parts.	/ Bombay-West Coast & India/) West Asia (Gulf) Con- ference.	1. S.C.I. 2. Scindia 3. Damodar 4. Cnllis Linc 5. South East Asia 6. India Steamship 7. R.A.J. Liner
7. West Chast of Indi (Including Tut- carin/U.S.A. Gulf of Mexic (Ports.)	ia West Coast of India and is Pakistan/U.S.A. Conference & co	1. S.C.I. 2. Scindin
Portsk in Max Central & So America and Islan in Carribean Sea	• ·	1. S.C.I. 2. Scindia.
Marie Control	if 1. Malabar Coast, U.K. and Fire Conference.	1. S.C.I. 2. Scindia 3. India Steamship
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(1)	(2)	(3)
10. Malabar/Canadian Atlantic Ports.	Ellarmen and Buchwell Steamship Co. Ltd.	1. S.C.I. 2. Scindia 3. M/s Aspin Wa Lyall & Co, Ltd.
11. Malabar/ New Zealand	British India Steam Nav. Co. Ltd., Union Steam Nav. Co. of Newzeland.	,
12. Malabar/Far East and East Asia.	Malabar Far East/Rate Agreement.	s.c.t
13. Malabar/Australiar Mainports	Malabar Far Kast/Rate Agreement.	s.c.t.
14. Bombay/Aden and Red Sea Ports.	Bombay/Aden and Red Sea Service.	Mogul Link
15. Bombay and Sau- rathtra/East Afr	1. British India Nav. Go., 1. Ltd. 2. S.G.I.	s,c.t,
16. Bombay/Mauritiu	Shipping Corporation of India and Scandinavian Shipping Service.	s.c.i.
17. Bombay/West Africa.	1. Mitishi O.S.K. Lines (with transhipment Singapore)	S.C.1.
	2. Ms. Malesk Lines (with transhipment at Hon-kong).	
	3. Jadrenska Slobdown Pol- vidba	
18. Bombay/U.K.	Karmahom Conference	1. S.C.I. 2. Scindia. 3. India Steamship

Phillipines & Indonesia

24. Bombay!
Sautashtra!
Marmugao!
Madras!
Japan Conference.
Madras!
Japan Hongkong

Hongkong
Tuticorin Homeward ConTerence.

	I AMER 140, 14(12)-Conta.	
(1),	(2)	(3)
C. East Coast Ov	erecas	, 1 /
26. Madras, Pondicherry U. K. Continent	1.(a) Madras Homeward Freight Conference.	1. S.C.1. 2. Scindia 3. India Sycam. ship.
•	(b) Madras and Pondicherry U. K. & Eire Continental Conference.	Bitaji-
	2. Madras and Pondicherry Continental Conference.	
	3. Madras Coast U.K. Eire Conference.	,
2 earlin	4. Madras Coast Cooti-	
	· · · · · · · · · · · · · · · · · · ·	
27. Madras/West	Elder Demuster Lines.	
28. Madras, Kakinada and Vishakapatnam/ Canada	Ellerman & Buck Wall Steamship Co. Ltd.	1. S C.1. 2. Scindia
29. Madras, Naga- patinam/Strait Ports.	S.C.I. and British India Steam Navigation Co. Join Service	· Ś,c,t.
30. Viiliakapatnomi U.K.	1. Vishakapatnam U:K. Lice Conference,	1. S.C.I. 2. Scindian

. 3. Iodia Steamhin.

1. S.C.I. 2. Scindia 3. India Steamship.

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2. Vishakapatnam Gogilnental Goglerenec

31. CalcuttalU.K. Continent 1. Calcutta Lines Conference 2. Calcutta: Continental Conference

(1)	(2)	(3)
32. Calcutta/ Aden and Sea Ports.	Aden & Red Sea raight Rate Agreement.	1. S.C.I. 2. Scindia 3. India Steamshit
53. Calcutta and Cochin/ Vera Cruz (Mexico) Barbados (Briagetown) Port of Spain (Trnid*d)	Scindia	Scindle Jan
34. Galentta/East Africa	Bank Line Ltd.	Scindia
35. Galcutta/West Africa	Eldar Dampster Line Ltd.	, y, i
36. Calcutta, East Coast of India Ports and Bangla- desh(USA Atlantic & Gulf of Mexico Ports.	Calcutta & East Coast of India Bangladesh/USA Conference	
37. Calcutta/Canada	1. M/s. Ellerman & Bucknall Steamship G Ltd.	1. SCL
•	2. Canadian Gity Lines	Ltd.
38. Calcutta/River Plate Brazil Service.	Bank Line Limited	
-39. Calculta Mexico, Pa- nama and Garibean Ports	Nedlloyd Line) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
40. Galcutta/West Coast of South America	of Bank Line	بذعر
41. Bay of Bengal/ Phili-		
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TABLE No. 14(12)-Conid.

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	(2)	(3)
Zealand Zealand 4. East Coast of India/Australian Main Ports.	I. British India Steam Nav. Go. Limited. 2. Union Steamship Co. Ltd. of New Zealand. Calcutta/Australia Conference. East Coast of India/West Asia (Gulf) Conference.	S.C.I. 1. S.C.I. 2. R. A. I. Lines 3. Damodar
46. Calcutta, East Coast of India/West Ania (Gulf) Ports 46. Calcutta, East Coast of India Ports and Bangla desh/Forts in Mexico Central and South America and Island in the	Calcutta and East Coast of India and Bangladesh USA Conference	5. India Steast Asia 6. South East Asia 7. Malabar 1. S.C.I.

T. new No. 14(13)

Port of Origin in Lommodity India	Jo 1	THE CALL STREET	1.00.10	Freight
	gin in	Overstas Destinations		Rates
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Tes . Cal	Calcutta	U. R. Ports (Londonflavetpoorflament)	. '	

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		\ε	Groundaut Ke	60	13 8 7 6 2	Ser and		(111)	· 🗜 🥇

(6)	70.75 nett	193.25 Contract 70.00 Contract	87 75 Contract	۲ ٠ .	iste rate. 5 per cu. M. plus	rcbate or 9.5% Sucz Surcharge, ental Ports and B
(+)	Ca.M.	U. S. Atlantic New York/Boston/Philade- 1000Kg. Iphia (d) Cu.M.	Iphia . Cu.M.	r of Commerce and Industigation Bureau, Bomba).	(1) London Porthandulls	., subject to 10 % deferred ni are also Subject to 13.5% and 11.11% CAF to contin
Track No. 14(13)—Conid.	(3) U.S. Pactfic	U. S. Ailantic New York Iphia (d)	New York/Boston/Philadelphia	Freight Rates for Calcutta are from Bengal Chamber of Commerce and Interest Rates for Bombay are from Preight Investigation Bureau, Bombay. Freight Rates for Bombay are subject to 3 *The above rates are subject to 3 *The above rates and subject to 3	(1) London Port handulls Commonth 20%, Liverpool 4.70 2. congestion surcharges: Swednerges of 11 11% 3. Dollar devalution Surcharges of 10% deferred to 94% 4. Suez Surcharge 134% Rebate 10% deferred to 94% 5. Bunker Surcharge of 20%	ot to bunker starting. Sent basis Ports are gross, 1-6 i. The factor) to UK. Ports in and factor) to UK.
	(2)		Goat Skins (in bales) Bombay	Sheep Sains (iii) Shale) Shale) Norsi.—Freight Rates for Calcutta are from Preight Investigation Bureau, Bomba). Norsi.—Freight Rates for Bombry are from Preight Investigation Sureau, Bomba). *The above rates are subject to 1 *The above rates and preight Sain Sain Sain Sain Sain Sain Sain Sain	(1) London Porthandulus Singer Ayonmouth 20%, Liverpool 470 2. congestion surcharges: Ayonmouth 20%, Liverpool 470 3. Dollar devaluation Surcharges of 11 11% 4. Suez Surcharge 131% Rebate 10% deferred to 91% immediate on the braie rate. 5. Butker Surcharge of 20% 5. Butker Surcharge of 20%	**The above rates are subject to bunke Surveys and 10 % deferred, rebate of 9.7% suck surcharge of 112% of 112% suck surcharge of 112% suck surcharge of 112% such suck surcharge of 112% suck surcharge of 112% such suck such suck suck suck suck suck suck suck suck
	, ,	(b)	89	Sh		

Bunker Surcharge of 19, 50%. Shipments to Avonmouth would attract a Surcharge of 20% effective from 29, 10.77 payable by party paying freight and to LiverpoollBirdenhead would attract a surcharge for 29, 10.77 payable by party paying freight effective from 25-2-74. Shipments to London would attract an calcase of carge. The rates to Australia are subject to GAF (currency adjustment factor) of 11.11% plus 17.77% funker surcharge.

Source, ... Indian Trade Journal ... July 31, 1974. Govt. of India, Deptt. of Commercial Intelligence The rates to Australia are subject to CAF (currency adjustment factor) of 11.11% plus 16% Bom. bay congestion surcharge plus 20% Bunker Surcharge. (d) The rates to U.S.—Atlantic Ports are subject to 12.5% Suez Surcharge and bunker fael surecharge of \$23,60 per 1000 Kes.

and Statisties, Calcutta.

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		(1970-71 to 1971-7-)				1. 1000 HE	10 102
10世代 10世代			12:0261			1971-72	
		Public Sector	1	Total Sector	. 1	Private Sector	
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which is a Private Company managed by a Public Sector Underta		"Co. which	13-Private Co	mpany mana	ged by a J	ublicSector	Cadent
*Includes Jay	ipping Com	oration of In	dia Ltd.				
11.	,	•					

TABLE No. 14(15)

GROWTH OF INDIA'S OVERSEAS TRAFFIC EARNING FROM NATIONAL SHIPPING

أ و أو المالية

(1955-56 to 1971-72)

(Rs. in Crores)

	Year							Freight	Fare	Total
	(1)							(2)	(3)	(4)
-	1955—56	•	,	•	•		4			13-42
	1936-57				•					17:45
	195758					•				20:59
	195359	•						***		24.05
	195960		•	•						25.77
7	1950-61							-	,	30-29
	1961-62									\$1.66
	1952-63								-	34-29
	195364			٠				-		43-13;
	195465							7		51-36
	196566			•		`•		53-44	2-22	55-66
	195567			-	• :	•		90-27	2-64	92-01
	195768		•		٠,	,		105-81	2.69	108-50
	198969					``.		118-90	2.47	121-37
	196970				•`			128,78	1.74	130-52
	197071							165-59	2.52	158-11
	1971-72			•	•	•	•	173-03	1:77	174.80

TABLE No. 14(16)

TREND OF EXPENDITURE ON REPAIRS TO INDIAN VESSELS INCURRED IN INDIAN AND FOREIGN SHIPYARDS

(1963-64 to 1971-72)

Year							No.of ships including those with repeated repairs	Indian vards	Repairs Expendi- ture in foreign yards (Rs.lakhs)
dy a	,						(2)	(3)	(4)
1963_64	•		•	•				-	49
196465									182
1965-66	•		•					-	25
1966—67			. •						212
1968_69		٠	•				1393	686	315
1969-70		,			•		1525	643	303
197071			÷					709	402
1971-72	•	,		•				-	804

Note. The figures under col. 4 represent the amounts recommended by the DG Shipping to the Reserve Bank of India for release of foreign exchange,

TES IN PORT AND AT SEA FOR THE INDIVIDUAL OVERSEAS INDIA SHIPPING UNDERTAKINGS DURING 1972 TABLE NO. 14(17)

	29.39 28.85 27.71 22.50 30.38 31.03 24.34 24.10
	3.75 3.71 4.29 2.72 3.58 2.86 2.63 2.51
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	9260 9262 9335 9121 9336 9337 8119
•	 1970 1970 1969 1969 1969 1969
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	unil C SECTOR 1, S. C. I. (f) 1, M. V. Vishan Darshan 2, M. V. Vishan Distrina 3, M. V. Vishan Dharma 4, M. V. Vishan Bhafu 6, M. V. Vishan Shakti 7, M. V. Vishan Shakti 7, M. V. Vishan Shakti 8, M. V. Vishan Shakti 7, M. V. Vishan Shakti 8, M. V. Vishan Shakti 8, M. V. Vishan Shabta 7, M. V. Vishan Shabta
2	CCTOR (f) (g) Visitiva V Visitiva E Visitiva E Visitiva E Visitiva S Visitiva S Visitiva S Visitiva S Visitiva S
-	public sector 1, S. C. I. © 1, M. V. Vishva 2, M. V. Vishva 3, M. V. Vishva 4, M. V. Vishva 5, M. V. Vishva 6, M. V. Vishva 7, M. V. Vishva 8, M. V. Vishva 9, M. V. Vishva 9, M. V. Vishva
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TABLE No. 14(17)-Confd.

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9, M. V. Vishva Dsha	1960	1960	3136	6222	I	1.17	14.75.	2.13 0.26 0.06
added the state of	1959	1959	9457	5586	0.16	1.93	18.22	1.36
II. M. V. VISOVA Kradina	1959	1939	9173	5108	I	2.47	23.86	1.83
32. M. V. Vishva Jiev.	1939	1968	10843	6030	1	2.02	20-15	1.82
13. Nr. V. Vishan Vision	1959	1968	10441	6103	•	1.61	14.92	2.20
14. Mr. V. Vishen Vallanna	1950	1962	10350	7619	ł	1.58	18-23	1.60
15, M. V. Vishva Mark	1958	1968	2356	1374	1	0.13	ı	2000 540
17. M. V. Vishva Vinay	1958	1968.	2356	1937	ł	61.0	i	400 640
18, M. V. Vishva Anand	1938	1968	3864	2023	1	0.30]	4.7.42 G-13.22
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io, M. V. S/Outland	1957	1960	8394	4934	1	0.31	12.07	0
								00 00

(2)	() () () ()	€.	<u>.</u>	(e) (e)	Ξ,) () ()	 3 3	6
42. M. V. S/O Assam	1957	1959	8394	4934		0.61	11.03	0.32
	,	,				٠		Ö
45. Mr.V. S/O Orista	. 1937	1957	5329	2676	ļ	1-40	12.77	2.01
44. Mr. V. Vishva Vir	1 1957	1961	7055	3692	0.62	1.73	18-47	2.07
45. M. V. Vishva Pratap	1937	1961	7055	3692	0.25	2.08	16.28	2.92
46. M. Vr Vishva Laffta	. 1957	1968	3936	2043	ł	0.83	1	9-30
								္ ရှင်
* C. M. V. Vishva Pratibha	. 1937	1968	3903	2051	l	0.33	1	9.28
								Ö
10. M. V. Vishva Kanti	. 1956	1964	7055	3692	1	1.63	16.88	0.00 0.00
49. M. V.S/O Kutch	1956	1956	5266	2635	1	1.54	14.74	1.63
50. M. V. Vishva Suman	1956	1969	3174	1643	ł	0.68	l	6.32
J. J. M. V. Vishva Kusum		1968	3156	1702	1	1	1	1
32. M. V. S/O Trav-Cochin	ո 1954	1954	. 6244	3390	l	16.0	11.65	1.44
33. Mr. V. S/O Andhra Prac	lesh 1947	1953	4529	2678	ł	0.09	1	11.40
St. M. V. S/O Bombay	. 1948	1954	8521	4393	15.74	l	60-11	1
55 Mr. V. 5/O Madras	. 1948	1954	8401	4263	15.38	l	67.20	i
for the man visited Vijay	1966	1966	9655	6398	l	1.63	16.27	1.83
gere Ate Laghat Rai.	. 1965	1962	28812	20782	27.17	4.30	41.33	2.61

TABLE No. 14(17)—Conld.

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59. M. T. Desh Bandu 59. M. T. Desh Bandu 50. M. T. Lal Bahdur Shattri 60. M. T. Al Bahdur Shattri 61. M. T. Andah 63. M. T. Nahada 64. M. T. Bellary 65. M. T. Burtauni 66. M. T. Baltadila	1964 1969 1960 1960 1960 1960 1970 1970	1969 1970 1968 1968 1968 1960 1970 1970	21717 48 H1 10141 23 195 23372 23372 23372 45752 15752	15009 33326 33326 15061 15939 15936 31875 31875	4.63 14.82 7.32 6.37 10.69 9.62 28 21	2 57 27.23 8.01 2.26 3.36 1,85 7 67	32.95 64.21 63.18 30.41 41.40 32.38 69.87 63.52 69.55	2.56 1.59 1.79 2.13 2.15 2.78 1.27 1.27 4.82 5.08
1.S. S. Sudi 2. S. Sudi 3. S. Nozufari 5. S. S. Nobamani 4. M. V. Abbu	1956 1956 1977 1971	1966 1918 1917 1971	5973 702 1 7026 8279	3818 3994 1003	7 11 8:56 7 96	[26.19 38.50 36.43	1111
2. PRIVATE SECTOR J. Ind. Industry 2. Ind. Reliance 3. Ind. Renown	. 1959 . 1955 . 1955	1959 5 1955 5 1955	6429 7 122 7657	2918 3974 3974	8.95	0.61 8.68 0.83	9-91 44-12 46-30	98.0
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6	43 56	000	11.00	97.76	20 02	98.45	C+ 0.7	27 49	37 96	47 45			27 63		43 80	39.39	40 40	74. 47.	21 04			i
83	ı		i	1	1 1		o o	0 83	1 05	0 86	80		70.0	0.92	1 05	0 68	0 86	3 .	/01		2	MDO
7	5,23	62.5	7.87	4.03	6.68	1		i	7 63	7 43	į	!		1 ;	co /	8.13	7.68	1	Ì		l	
θ,	4535	4537	4531	4531	4543	4813		2080	2116	5199	5158	1531	5131	1 0	0010	2549	5549	6502	3		3126	
50	7657	7659	7659	7660	7660	8811	0	2000	9338	9409	9412	9417	9117	4770	22.50	6116	9779	9629	:		6226	
4	1947	1947	1947	1947	1947	1970	1050	0001	0061	1957	1958	1960	1960	1958	1060	000	1960	1971			1960	
3	1941	1944	1944	1945	1944	1963	1050	1060	000	1957	1958	1960	1960	1958	1956	1	9667	1261	•	•	1934	
	٠	•	٠	٠	٠	٠.	^,	•	••	•	:	٠	*	•		•	• '	•	1	Z.LD*	٠	
1	٠	•	•	٠	٠	٠	•	•	•	•	•	•	•	٠.			• *	•		SEAS		
1 2	4. Ind. Pioneer	5, Ind, Trader.	6. Ind. Merchant	7, Ind. Exporter	8, Ind.Shipper	9, Ind, Tribune	10 Tad Semitiv	11 Ind Tradition	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	IZ. tad. Spiendour	13. Ind. Strength	14. Ind. Trust .	15. Ind. Triumph	16, Ind. Success	17. Ind. Resolve	10 Total	to. thu. tecodifices	19, Ind. Valour.		II SUKENDRA OVER	1. Api Anili .	-

-1 -2	es.	4	. R	9	7	8	6	٥
2. Apj. Sushma	1953	1960	6337	3625	1	0.51 MDO	1	11.18 MDO
3. Apj. Akash	1934	1900	6918	3559	ì	0.51 MDO	í	11.18 NIDO
and American as	1966	1966	10928	7359	i	1.52	31.50	1.02
S. Apj. Priya	1946	1966	10931	7339	i	1.52	31.50	1.02
III DEVIPO STEAMSIIIP L'TD	, °							
1. M. V. Jagat Mahini	1958	1969	12241	7170	I	1.52/	20.32	1.52/ 2.03
2. M. V. Jagat Padmini	1958	1969	12318	6276	I	1.52/	20.32	1.52/2.03
3. M. V. Jagat Neta'.	1965	1965.	22452	16886	i	1.52/	38.60	1.52/
4. M. V. Jagar Vijeta	1966	1366	22452	16077	1	1.52/	38-60	1.52/2.03
5. Af. V. Jagat Swamini	1959	1970	12255	7174	1	2.03	20.32	
IV SOUTH INDIA SHIPPING CORPN.	CORPN.£							
1 M. W. Chennai Byam	1965	1965	24355	10000	1			
2. M. V. Chenaai Perumai		1966	24364	10095	•	3,7		ŕ
3. M. V. Chennai Okam	1966	1966	24363	18959	•	3.0	1.75	•
		1			-			1

2	ø	4	ທ	9	٠, ١	٥	,	:
	9900	946	94365	18959	1	2.7	34.9*	2.7
 M. V. Chennaf Sadhan; M. V. Chennai Selvam. 	1966		24365	18959	ŧ	2.8	35.1*	2.8
** ANTE STIPPING CO.								
GIANTA CALLA	1056	1962	6248	3415		0.17	17.17	90.0
I. M. V. Krishna Jayanti	1054	1962	6266	3 167	09-9	0.25	15-75	0.15
2. M. V. Gundhi Jayanti	1054	1961	8397	4777		0.47	14.13	0.15
3. M. V. Rama Jayanti	1001	1965	15528	10227	5.24	2.85	35.40	12.36
4. M. V. Bhaskara Jayanti		1965	15528	10227	4.67	4.71	4.71	2.57
5. M. V. Leela Vatt Jayratt	•	1065	15229	10231	3.27	3 05	31.13	2.41
6. M. V. Chanakya Jayanti	0001	1901	20418	12207	4.37	2.20	33.67	2.19
7. Nr. V. Adl Jayrati.	0061	1963	91289	14380	ì	2 25	27.61	1.85
8 M. V. Bharat Jayanti	1069	1963	21632	13807	0.27	1.83	29 85	1.81
9, M. V. Gotama Jayrati	5903	1963	21635	13790	0 33	0.59	29.91	1.66
10, M. V. Chandragupta Jayant 1303	2061 11	1963	21635	13790	0 32	1.44	29.80	1.66
11. M. V. Akbar Jayanti	1064	1961		13796	0 11	1.93	29 26	1.66
12, M. V. Dovaraya Jayanti	1001	1064		13800	0 08	2.35	30.12	1.90
13, M. V. Kanishka Jayanu	1961	1964	21635	. –	1	3 54	29.75	1 73
Jayantı	1963	1963	21635	13798	5 24	2 85	35.40	12.36
15. M. V. Shanjanan Jayani.					15.55	3.97	02-99 /	3.08
10. 144. 19								

TABLE NO. 14 (17)-Conld.

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A. J. LINES E.									
M. V. Sabeena	. •	1039	1963			I	0.20	I	00.9
f. V. Sadeeka	•	1961				I	0.50	1	00.9
I. V. Saleema .	•	1957		2274	1379	I	1.00	I	7.50
ALLIN LINES LTD	3 a.								
S. Radiant	. •	1957	1957	2234	1006	\$·00	I	14.00	I
S. Starlight .	•	1958	1971	3907	2177	5,00	I	16.00	I
SCINDIA STEAM.	MAV.	3.00							
M.V. Jalazad	,•	1935	1955	6199	3410	1	1.5	16.5	1.1
M.V. Jalaliwahar.		1955	1955	6199	3410	i	1.2	16.5	1.7
M. V. Jalagopal	•	1955	1055	9863	6003	1	5.	19.4	4.1
. M. V. Jalagomati.	٠,	1958	1963	9056	4995	ł	1.2	16.1	6.1
Mr. V. Jalaganga	•	1958	1963	3053	4454	I	1.0	12.0	1.8
Mr. V. Jalagouri	•	1957	1964	0028	4455	i	1.0	12.5.	1.4
I. V. Jafapalka	; •	1901	1963	9292	4992	.1	1.0	25.0	1.0
3. M. V. Jalapankhi		,19 61 ,	1965	9292	* 4993.	1	1.0	23.5	
V. Jalgirja		1963	1968	15526.	6061	[]	0.8	19.2	0.8
V. Narotatam M.	brarje	e 1967	1969	29966	21883	ji S	1	1	j

S 11. N.V.Ja	dharana	19.00 19.00 19.00	1937	1957	5.6527°	9.5.0	がはない	の対象	24.6	
17 X X	sthilliles	۰ د د	1958	1959	6698	5320				
13 Mr. V. Jahrdung	durga		1950	1960	9176	5117			0.70	
Z 14 M. V. Jaladbany	rdpanka	٠,	1957	1958	9.188	5523	.* :;	, ,	2.5	
(C. 15, M. V. Jaladhruy	udhruy	4	1956	1956	6527	3549	I		25.0	
S. 16. Nr. V. Jafachar	dhan		1956	1936	6527	3549	ļ	Ξ.	25.3	
I.J. M. V. Jaladhart	dhart i ,	:	1937	1957	9488	5523	i	1.2	25.1	
19. M. V. Jaladhur	dhur .		1957	1957	9409	5523	i	÷:	24.5	-
20 of tr Line	iduta .		959	1959	9177	5170	i	1:3	24.4	-
91. M. S. L. L. S. V.	Kr tsluna		1960	1960	9215	5836	l	1-2	22.0	
22. N. N. Talakiri			1961	1961	9228	5840	l	1.3	22.7	
23. M. W. Lalakain	Kala L		1964	1964	9408	5415	l	†· I	25.1	:
24. M. V. Talahandir	frequents .		1963	1965	9379	5328	1	1.6	25.2	1-8
25. M. V. Tal.	refiller .		1966	1966	9371	5326	1	Ξ	22.8	1-3
26. M. V. Talawitan	vallerin .		1955	1955	7179	4389	1	1.2	10.8	
27. M. V. Ial	tviehm.		2561	1935	7178	4338	i	Ξ	10.5	-
26. M. V. Jalaver	Million of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	•	9261	1956	7178	4366	1	0.1	9.3	=
29; M. V. Jalamadhur	amadhuri	•	1956	1958	7172	4385	1	1.5	9.6	1.8
30. M. V. Jalamaniri	amaniri .		1956	1001	0014	2303	0.7	6.0	25.7	1

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r V Talantavi	1954		4486	2385	1	1	į	ļ
Mr. V. Lalamelimi.	9961	_	11323	6574	ı	<u>-</u>	25 7	<u>.</u>
f V Literian	9961	_	11323	6574	ı	1 7	26 0	=
f V fultritus	1967	1961	11323	6574	l	<u>.</u>	24 5	6 1
1 V JAI 114111A .	1966		1 0933	7759	ı	- 3	25 0	9 1
r V Taloitott	1966	_	10929	6783	ı	9 7	26 0	~
t v falletenen	1961		12089	6783	1	2 0	24 5	7 7
t V folymans	1970	_	9266	5267	ı	5 0	17 3	3 0
V Zalamasair	1970	_	956+	5266	ı	2 1	35 2	2 3
r V Jalaman-da	1771		9264	5266	1	8 -	39 3	2 t
V falantatsta	0261		9464	5266	l	ස -	42 1	- 7
V Sonaviti	1,960		66t l	1163	1	0 3	I	4 6
X CREAT BASTERY								
M. V. Ing An und .	1963	_	01011	6290	1	2 00	24 20	1 80
Mr. V. Lag Anials	1963	1968	11066	6275	1	1.30	26 25	1 50
M V Lag Acti	6761 .	_	10132	6753	1	1 20	20 00	1.20
of, V. Jag Asha	1.961		10947	6726	1	2 00	22 75	08 1
V. Frg Durdan	6961		14341	9074	1	1 70	24 50	1 70

6. M V. Jag Dev 1968 1968 1968 N. V. Jag Jawan 1966 1966 9. M. V. Jag Kusan 1967 1957 1957 1957 10. M. V. Jag Rusan 1956 1969 11. M. V. Jag Rusan 1956 1969 12. M. V. Jag Rusan 1969 1971 13. M. V. Jag Rusun 1969 1971 13. M. V. Jag Rusun 1969 1971 13. M. V. Jag Rusun 1962 1969 1971 14. M. V. Jag Rusun 1962 1969 1971 15. M. V. Jag Vulaya 1962 1962 1957 15. M. V. Jag Vulaya 1962 1962 1957	13325 23942 23706 8798 8747	9109 13558 13138 6230	1 1	1 30		
1966 1957 1957 1957 1957 1956 1956 1969 1969 1969 1969 1969 1969		13558 13138 6230	1		26 00	1 80
1967 1957 1957 1950 1969 1969 1969 1969	•	13138		3 00	35 00	3 0
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1957 1956 1969 1969 1962 1962		101	1	1 +20	17 00	-
1956 1969 1969 1962		1001	1	2 00	21.00	. `
1969 1969 1962 1964		4693	1	1 30	19.00	S ==
1969 1962 1964		6257	1	1.50	15 75	
1962 1962		6228	Ì	2 00	18 50	00
7961 .		5525	1	1 60	18.00	
		5492	í		2 2	
		5860	1	2 2	74,00	3 3
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f. M. V. Maritha Progress 1964 1964	22210	16235	1	2 0 3	37.59	2 03
r 2. Mr. V. Maratha Providence 1966 1966		16194	1	VIDO 2 54	42 67	100 2 54
XX PENT OCEAN STEAMSHIP®				V(D)		MDO
1. Satundra Jat 1943 1963	7207	4360	8 00%	i	26 00	i
			,		2	

^{**} Relates to the year 1970
*** Relates to the year 1971-72
@Relates to 1970-71

LABER No. 14 (17)-Centd.

2. Samudra Iyott 1943 1963 7279 1279 170	(1) (2)		(3)	(4)	ව	(9)	(7)	(8)	6)	000
153 1946 7209 4181 8-00 26 0 0 56 1969 1764 918 6-2 14 5 59 1971 6793 3693 240 0 21 00 21 00 51 1951 1527 830 0.29 100 4-00 60 69 1969 24573 18973 2 30 100 250 60 69 1969 24330 18207 2 30 100 250 230 53 4117 1979 3 00 100 2-30 100 63 1969 24177 1979 3 00 100 2-30 63 1969 24177 1979 3 00 100 2-30 63 1969 24177 1979 3 00 100 2-33 63 1969 24177 1979 3 00 100 2-33	2. Samudra Jyott		1943	1963	7278	1279	00 B	1	26 00 ro	1
56 1969 1764 918 6·2 — 14 5 59 1971 6793 3693 — 2 00 21 00 51 1951 1527 830 0 29 1 00 60 69 1969 24573 18973 2 30 1 00 2.50 69 1969 24330 14207 2 30 1 00 2.50 53 4117 1979 3 00 100 2.30 53 4117 1979 30 100 2.30 10 10 10 2.30 100 2.30 10 10 10 2.30 100 2.30 53 4117 1979 80 — 100 2.33 10 10 10 10 10 2.33 10	3. Simudra Daya	•	1913	1948	7209	4181	8.00 FO	1	26 00 10	1
56 1969 1764 918 6·2 145 59 1971 6793 3693 — 2 60 21 00 51 1951 1527 830 0 29 1 00 4·00 69 1969 2 1573 18973 2 30 1 00 2 50 69 1969 2 1330 18207 2 30 1 00 2 30 53 1969 2 1330 1 00 2 30 1 00 2 30 53 1 1 17 1 1 7 3 3 00 1 00 2 3 0 63 1 1 17 1 1 1 3 1 0 0 2 3 0 1 00 2 3 0 63 1 1 1 2 1 1 3 7 1 1 3 0 1 0 0 2 3 0 1 0 0 2 3 0 63 1 2 2 3 1 3 0 1 0 0 2 3 0 1 0 0 2 3 0 63 1 3 0 1 0 0 2 3 0 1 0 0 2 3 0 1 0 0 2 3 0 63 1 2 2 3 1 3 0 1 0 0 2 3 0 </td <td>XII UNIVERSAL SIL</td> <td>PPLYG (</td> <td>.0.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	XII UNIVERSAL SIL	PPLYG (.0.							
59 1971 6793 3693 — 2 00 21 00 21 00 51 1951 1527 830 0 29 1 00 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 <td>1, S. S. Unigaolan</td> <td>•</td> <td>1956</td> <td>1969</td> <td>1764</td> <td>916</td> <td>6.3</td> <td>1</td> <td>14 5</td> <td>1</td>	1, S. S. Unigaolan	•	1956	1969	1764	916	6.3	1	14 5	1
51 1951 1527 830 0.29 1.00 4.00 GO GO 1969 24573 18973 2.30 1.00 2.50 NIDO GO 216573 18973 2.30 1.00 2.50 NIDO GO 2167 2.30 1.00 2.50 NIDO GO 2167 2.30 1.00 2.50 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2167 1.00 NIDO GO 2	XIII SOUTH EAST 1. M. V. Valiabha	ASIA £	1959	1971	6793	3693	I	2 00 MDO	21 00	2 00 MDO
*** 1951 1951 1527 830 029 100 4-00 **** 1969 1969 24573 18973 230 100 2-50 **** 1969 1969 24530 18287 230 100 2-50 **** 1953 4117 1979 300 103 **** 1053 1053 4117 1979 300 103	XIV DAMODAR BU.	LK CARR	JER							
6 . 1969 1969 21573 18973 2 30 1 00 2.50 NDO NDO NDO NDO NDO NDO NDO NDO NDO NDO	1. Diniodae Mand	. 140	1921	1921	1527	830	02 03	9 <u>0</u>	5.6 €	9 50
1969 1969 21330 18287 2 30 1 00 2.50 NDO NDO	2. Dimodar Kanib		1969	1969	21573	1 8973	2 30 NEDO		NEO 0	46.60 FO
. 1953 4117 1979 3 00 - 23 3 nO nO	3. Onnodar Fank		1 969	1969	2 1330	18207	2 30 MDO	_	2.50 NDO	55 100
	& Damodar Zuari		1953		4117	1979	3 00 100 100 100		23 3 110	1

Marine Diesel Oil

2

Talf No. 14 (16) Shipping, development fund...annual operations (1959-50 to 1971-72)

(Rs. in lakine)

				RECEIPTS				
Year	Dalance	Loans	Grants '	Subsidy	Interest received	received	Loans	Total
		Govt.	Govt,	Gove	Shipping Cos.	Deposits with Reserve Bank	from from Shipping Cos,	
3	(3)	(3)	(£)	3	(9)	6	6	(6)
1959-60		605-91	01.0	0.83	1.03	6.12	١	61 1-01
19-0961	319.18	300.00	01.0	3.29	9.01	21.07	15-67	319-17
1961-62	. 609-53	992-15	0.20	1.28	13-95	35-68	17.00	1063-26
1962-63	. 1170.73	00.001	0 22	19.18	29-19	36.74	31-25	516-88
1963-61	. 1357-88	100 00	0.12	17.87	41.19	46.05	49.45	555.28
1964-65	36.648	1280.00	0.40	28.36	01.29	34.75	65-73	1471.54
1965-66	. 1325-94	00.906	09.0	51.96	64.63	59 31	1159-15	1262-18
1966-67	1704.61	:	1.08	13.83	112-18	62-41	161.26	331.06
1957-68	. 702-13	1000 00	1.33	82-36	141.22	31.45	210.39	1166-75
69-8961	. 513 05	1609-00	1 00	135-63	168.52	70-41	557-65	2 183 - 23
1969-70	. 692-18	1800-00	1.39	135.20	217.25	26.32	707-13	2919-37
12-0261	551,35	3150.00	1.40	189.06	311 00	17-33	772-29	1771.08
1971-72	. 1166-81	1700.00	5-45	255.08	100-66	35.58	973.39	3390+96
umula-	ì	14134-06	131.00	10-996	1622-88	465.25	3740-66	21244-75

										PAYMENTS		
			»	Year				Interest paid to	Loan	Admini- strative	Total Cols.	Closing Balances
4								Govt, on loans	to cos.	expenses	_	
				ε				(<u>e</u>	E	(12)	(13)	(14)
1939-60					١.		•	00-0	287.00	0.03	295.03	319.18
1960-61	•	•		. •	•	•	٠	33-10	25-90	0.17	59.47	609-53
79-1963	•	•				•	•	53-91	433-13	0.15	487-19	1170.73
1202-03	,	•		:	•	•	٠	112.41	277.08	0.26	362.75	1357.88
100000	•	٠	•		•	•	٠	102-41	617.37	0.42	723-20	8-15-9-
200		•				•	•	125-41	1126-13	0+0	1251.94	1325-94
2000	•	•				•	•	195-93	706-48	0.00	903-21	1707.84
1000		•		•	•	•	٠	210.72	1163.07	1.00	1302.79	702.13
00.000		٠	•		•		٠	255-0-1	1373-33	:- :-	1629-49	513.05
00000							•	324.56	1972.74	1.20	2298.50	692.18
0.00		•	•				•	+10.85	2628-09	1.26	3040-20	551.35
1071-71							•	547.39	3598.70	1.28	+1+7.37	1166-81
		-				·	•	692-12	2766-20	1.71	3460.03	1087.70
		•	Cumulative Totals	lative	Tot	E IS	٠	3116-15	16975-22	9.79	20041-16	;

Source: -.. Annual Reports and Accounts of the Shipping Pand Committee.

Note:—(i) Intereston loans from Government paid by SDFC and the interest received on SDFC deposits with the Reserve Bank of India neat 4.5% from 1929-60 to 1961-62, (\$95%) from 1962-63 to 1964-65, (\$0.5%) from 1965-66 to 1970-71 and 6% since 1971-72.

(ii) Interest eligible by SDFC from the Companies is (\$0.3%) in respect of loans sanctions prior

have not been shown in the above table basides the lifference on account of accused receipts (11) The difference between Coll. 3 and Col. 18 is not equal to Col. 14(i.e. Cashin hand and in Jank) as certain expenditure ou, fixed assets, advances to sinff and others to 1-2-1971 and 119% thereafter. and outstanding liabilles.

TABLE No. 14(19)

SHIPPING DEVELOPMENT FUND TOTAL FINANCIAL ASSISTANCE EXTENDED TO THE INDIGENOUS SHIPPING INDUSTRY AT THE END OF EACH YEAR

(Cumulative Totals)

(Rs. in million)

· · · · · · · · · · · · · · · · · · ·							
Year	,		Loans Sanction- ed	Loans disbur- sed to compa- nies	Repay- ments received from compa- nics	Loan Out- standin	No. of guaran- g tees/ counter guaran- tees issued
(1)			(2)	(3)	(4)	(5)	(6)
195960 .	•		28 70	28.70	• •	28.70	•••
1960-61 .			121-60	31.20	1.57	29.72	***
196162 .			422-42	74-60	3.27	71.33	•••
196263 .			454.52	102.31	6 39	95-92	11
196364			569-73	164.05	11.34	152.71	11
196465 .			870-12	276-66	17 91	258.75	12
196566 .			981-41	347.81	33.86	313-45	15
1966-67 •		•	1034.02	463-62	49.98	413.64	17
196768 .			1470-34	600.95	71 02	529-93	18
1968-69 -	•		1739-29	798.05	126-61	671-44	18
1969-70			2647.94	1060.86	197.33	863-53	21
197071			3986.08	1420.90	274.56	1146.54	27
1971-72 .			4415-07	1697-52	373 89	1323-63	30

TABLE No. 14(20)

COMPANY-WISE LOANS SANCTIONED BY THE SHIPPING DEVI-LOPMENT FUND COMMITTEE (S.D.F.C.) SINCE ITS INCEPTION UPTO 31ST MARCH, 1972

(Ps. in laid)

\$1. No.	Name of the Shippin Company	g Amount of Ioans sanction ed	paid to		Balanti of lossi recover able from companie
(1)	(2)	(3)	(4)	(5)	1647
1. Afri	cana Co. (P) Ltd., Bomb	ay 26.52	26-52	26.52	1111 21
2. Ami C	ozsrador Stramships Ltd.	, \$.00	5.00	5. 00	73
5. Calc	ratta Stoam Nav. Co. Ltd., altrotta	16-00	16-00	16.00	الشقورية
4. Libar	at Line Idd., Bombay .	98.00	\$5.00	96-00	-
3. Char E	wrain Steamhip Ltd., mbay	1937-76	501-65	143-36	352-29
	odar Balk Carrien Ltd.,	2037 71	284-07		201-01
. 7. Dem.	po Hinamilija 128., Kabay	1537-80	378-68	126-16	231 72
S Citrat La	Lettern Stripping Co.	4303-25	1115-52	357-24	724.68
i levin	Stranding Co. Ud.,	1352 18	323-68	29.67	257,61
fo, Japan	of Colymbias Co. Lad.,	2793-93	2723-21	793-51	1927.7
11,-30-713	a for mer Lingford, bladres	62-02	12,92	14-6%	27.58

- TABLE No. 1 20)- Celed

	à.				(Rs.	in lakhi)
(1)	(2)		(3)	(1)	(\$)	(6)
12. Mogul	LineLimited,	Bombay	y 1024·17	114.42	28-60	85.82
,13 Raj Ki cutta	mar Lines Lt	i., Cal-	28.00	28 00	28.00	_
14. R. A. J	Lines Ltd., Ca	deutta.	84.00	83-00	30.22	53 78
15. Ratnaka Calcu	er Shipping Co.	Ltd.,	547-61	139 83	259 10	180-73
16. Scindia Bomb	Steam Nav. Co.	Lid.,	3374-26	1374 00	354.35	1019-65
17. South In	dia Shipping C Lid., Madras	orno-	1890-72	1122.70	393-55	729-15
18. South E	ast Asia Shippir Bombay	ıg Co.,	13 00	13-00	13.00	Armon
19. Surendr	a Overseas Ltd.	, Cal-	G14 85	119-25	255-12	194-13
20. Thakur Bomb	Shipping Co.	Ltd.,	59 71	59-71	•••	59.71
21,Shipping Romb	Corporation	Ltd.,	2060.66	7809 36	727.89	7081-47
	Grand Total	. 4	4150-71	16975-22	3938-95	263-27

SECTION 15: COASTAL SHIPPING INDUSTRY

COASTAL SHIPPING INDUSTRY

With a coast line of over 4,800 kilometers on the western and castern banks of the mainland and with the islands of Andaman and Nicepartin the Bay of Bengal and the Laceadive, Minicovand Amindiverin the Arabian Sea which also form part of Indian territory, the coastal trade of India consists of trade between the various ports, for the mainland, as well as trade between the mainland and these island. Inter-island services are negligible since the islands are not yet will developed. Someferry services exist, however for passengers and issential commodities. Regular Feeder Services are also non-existent except occasionally when a large bulk carrier brings grains from abroad and smaller ships are used to lighten it and carry cargo to smaller ports.

Reservation of Coastal Traffic

Costal traffic is reserved for national shipping. Under Section 407 of the Merchant Shipping Act, 1958, no ship other than an Indian ship shill be engaged in coastal trade except under a licence granted by the Director General of Shipping. Though foreign ships could thus operate under a licence, such licences are not normally granted except In special cases such as where a foreign ship Carrying cargo for one Indian port happens to unload it at another Indian port and subseduently the same or another foreign ship wishes to carry that cargo to the original port of destination; similarly due to shortage of Indian fankers tonnage for the movement of refinery products on the coast, foreign tankers are permitted to operate.

Shipowners, Association for Coastal Shipping

The Indian Goastal Conference is an association of costal operators which was formed by an agreement signed on 31-8-1951. Its present membership consists of 16 companies. An essential condition for its

membership is that the company should own a.

not less than 750 GRT each, or one ship not below 4500 GRT less
nsed, to ply on the coast. A number of its members are engised
in overseas trade also.

The Conference regulates the dry cargo trade on the coast, from scribes terms, conditions and shipping practices for its carriage the arrangement does not, however, provide for the pooling of carriage the freight or scheduled sailings by member lines in any sector of the coast. Nor does it provide for quotas for the member lines in the pooling of any commodity. There is also no obligation on the number lines to retain any minimum tonnage on the coast with the result that they are free to direct their coastal vessels (with the permission of Director General of Shipping) to overseas tract when they find it substantially more profitable than the coastal trade. The Conference is recognized by the Government of India'as the representative body of coastal shippowners. The conference is also pennitted to regulate the coastal freight rate to a limited extent.

Shippers' Associations for Coastal Trade. . . .

The shippers have three zonal associations to look after their interests, namely:

(1) The Western India Shippers Association, covering the West Coast of India from Kandla to Bombay.

(2) The Eastern Iodia Shippers Association, catering to de actu-

(3) The Southern India Shippers Association which looks into the grievances of shippers in the area covered by the region from Madras to Kerala

Fixation of Coastal Freight Rates & Fare

Under section 412 of the Merchant Shipping Act, the General Government have powers to fix countal freight rates and insenses fares, and if considered necessary, may constitute a Board for this moreone. Though no standing Board has so far been constituted,

hoe committees, commissions were set up several times for this purpose. In netual practice, the Indian Coastal Conference is allowed to vary haightrates on individual commodities, excepting coal, salt and timber; bat, a general increase in freight rates or increases in the rates for coal; salt and timber can be effected by the Coastal Conference only with the prior approval of Government, Similarly as regards chartering whenever, there is disagreement between shipowners and charters, the rate for the Indian log tarm charter hire tankers employment on the coast is fixed by Government. The tanker rates and passenger fares are not within the purview of the Indian Coastal Cinterence.

The Government of India allowed the following general increase

15%

in reight rates vince 1956;— April, 1956 Jelst June, 1962 15% Except for Coal moving up to Cochin for which the increase allayed was 10% 10%

in lat August, 1905 alst July, 1967 10%

1-1st: April, 1970 20% (Except for Coal)

13th June 1971 . 10% on Coal slope.

. 15 % Except for coal on which only 15th Dec. 1972 5% was allowed.

In addition to above, the shipping companies were allowed to levy Surclarge on the cargo from timo to time sous to cover the increase in fuel prices.

To facilitate periodic review of coastal freight rates by Government, proforme are prescribed for furnishing the finacial results of Costil operation of each shipping company to the Director of Alloning who will examine these results to see whether any increase in freight rates is called for and then make suitable recommendation to the Central Government who will take a decision after taking into consideration the interests of both the shipowners and the shipper Customs Procedure for Coastal Cargo

Tor loading coastal cargo on a ship, the shipper is required to fill it shipping Bill known as "Shipping Bill for Indian Produce (Free Goods)" This bill is cleared by Customs normally without physical examination of the nackages prior to shipment. The procedure prescribed for the Customs for the clearance of coastal vessels is more no less the same as for vessels sailing for overseas ports.

For unloading, the consignees are required to file with the Custom prior to the arrival of ship a Bill of Entry, giving the full details carro such as number of packages, marks, description, gross weight value, port(s) of loading, country of origin etc. On the arrival of ship the Agents file Import General Manifest. The packages indicated in the Entry of a consigner are verified with the Import General Manifest and necessary notes made in the records of both the Custons and the port authorities. The goods are then discharged in custody of Port authorities (who deliver them to the consignee on isse of delivery order by the Ship's Agents) who will subsequently issuelo the Customs and the Ship's Agents their out-turn. Reports showing the actual quantity landed and the shortage or excess, if any, as per the Import General Manifest of the Agents of the ships. The Customs authorities ask the Agents to give explanations for the ungecounted packages. If the shortage includes dutiable cargo imported from abriad but transhipped from one Indian port to another by a coastal vesel authorities impose a pelialty on the earriers. Sinithe Customs larly, there are certain items of exportable goods on which; less is leviable by the Customs, and if any of these goods are also shirtlanded by a coastal vessel, the Customs levy a penatly on the earries In all other cases of goods short landed by a coastal vessel no penilty is imposed by the Customs.

TABLE No. 15(1)

SHARE OF PUBLIC AND PRIVATE SECTOR UNDERTAKINGS IN THE COASTAL SHIPPING INDUSTRY (AS ON 30.6.1973)

Type of trades in which engaged	No. of I	indian L akings	Inder-	No. o	f Coasta	l Ships
	Total	Public Sector	Private Sector	Total	Public Sector	Private Sector
(11	(2)	(3)	, (4)	(5)	(6)	(7)
1. Coastal Trade .	10	1	9	24	6	18
2. Both Coastal and Overseas Trades.	14	2	12	32	11	21
TOTAL	. 24	3	21	36	17	39

TABLE No. 15(2)

COASTAL FLEET OWNED AND COASTAL CARGO BOTH DRY AND WET AND PASSENGER TRAFFIC CARRIED BY INDIAN SHIPPING INDUSTRY

(1951 - 73)

Year a	end- Sist	No. of '	Total RT in -	Cargocarri	ed(inlakh		Passengers carried (i
Decem	ber-	1	lakhs	Total	Dry	Wet	lakh Nos.
(1)		(2)	(3)	(4)	(5)	(6)	(7)
1951.	•	79	2.17	25-15	25.15	•••	13.36
1952.		88	2.55	27.79	27.79	***	14.19
1953,		98	2.57	28.78	28.78		•••
1954.		101	2.86	29.05	29 05		12.40
1935.		92	2.21	27.04	27.04		•••
1956.		85	2-47	26.74	25.92	0.82	9.4
1957.		05	2.67	27.75	25-77	1.90	10.04
958.		85	2.50	29-13	26.66	2.47	9.01
1959.		95	3.07	30.43	25 57	4.06	0.91
1960.		90	3.15	33.46	27.45	6.01	9.06
1961.		104	3.62	39.29	33-49	5.80	9.03
1962.		107	3.95	45.65	40.77	4.88	9.70
1963.		107	3.03	45.30	40 29	5.01	8.06
1964.		114	4.12	40.58	36-14	4.44	9.64
1965.		101	3.38	38.24	32.47	5.77	8.95
1966,		95	3.30	31.09	25,24	6.65	9.24
1967.		82	2.82	29.48	23.17	6.31	8-10
1968.		75	2.76	26.83	20.74	6.09	7.40
1969.		70	2.52	27.79	10.74	9.05	G-14
1970		69	2.50	23.33	12.35	10.98	5.87
1971	•	62	2.10	26.77	16.40	10.37	5.43
1972.		59	2.01	27.92	17-16	10.76	5.12
1973.		56	2.20	29.46	15.49	13,97	***

TABLE No. 15(3)

COASTAL TANKER FLEET OWNED AND COASTAL CARGO CARRIED

(1960-72)

Year ending 31st		Number of tankers	ŧ	Average DWT per c anker n lakhs) -	Refinery preserved (lake	p tounces)	Average No. of voyages made per
Decembe	r		(1	n (2.5.115) -	Total	Per tanker	annum i.e. (5) ÷ (5)
(1)	7	(2)	(3)	(4)	(5)	(6)	(7)
1960.		3	0.36	0.120	6-01	2-003	13.
1961.		3	98.0	0.120	5.80	1.933	16
1962.	٠,	3	0.37	0.123	4.88	1.627	(13)
1963.		3	0.57	0-125	5.01	1.670	14
1964.	٠	3	0.37	0-123	4-44	1.480	42
1965. •		3	0.37	0.123	5.77	1.923	19,
1966.		´ 3	0.37	0.123	6-35	2-217	11
1967.		4	0.60	0-150	6-31	1.577	.11
1958.		5	0.75	0-150	6.09	1.218	8
1959.		5	0.75	0.150	9.05	1.810	-12
1970.		5	0.74	0.148	10.93	2-198	15
1971.		5	0.74	0-148	10-37	2.074	14
1972.		4	0.58	0-145	10.76	2+690	Fie

TABLE No 15(4)

SHARE OF INDIAN SHIPPING INDUSTRY IN COASTAL CARGO TRAFFIC

(1951-72)

(Qty. in lakh tonnes)

	42					Dry Carg	Ď	
	Yea	r		Coal	Salt	General Cargo	Total	% share of Indian Shipping compan- ies
(1)				(2)	(3)	(4)	(5)	(6)
1951		•	•	7.70	1 51	12 91	25 15	94
1952				10.89	4.71	12 19	27-79	95
1953				12.63	4.18	11 97	28 78	100
1954				12.28	4.79	11 98	29 05	190
1955				10.64	4.71	11.69	27.04	100
1956				10.97	4.78	10-17	25 92	100
1957				10.51	4.80	10.46	25.77	100
1958				10.86	3.93	11.87	26.66	100
1959				10-16	3 99	11-42	25.57	100
1960				11.03	4 17	12 25	27.45	100
1961				13.73	4.73	15 03	33-49	100
1962		.,	•	19.80	4.58	16.39	40.77	100
1963				18 95	4.76	16.58	40.29	100
1964	,			15.65	4.53	15.96	36-14	100
1965	•			12.22	4.03	16.22	32.47	100
1966				7.02	3.25	14.97	25.24	100
1967		٠.		6.77	2.90	13.50	23-17	100
1968		•		3.74	3.50	13.50	20.74	100
1969				6 96	2.46	9.32	18.74	100
1970				2.51	3.03	6-81	12.35	100
1971	•			5.08	5.18	6.14	16.40	100
1972	•	•	•	5.85	3.88	7.43	17·16 (Approx.)	100

TABLE No. 15(4)-Contd.

(Qty. in lakh tonnes)

Yea			Wet C	argo		Total of dry and	% share
****	•	Quantity carried in Indian tonnage	Quantity carried in foreign tonnage	Total	% Share of Indian Shipping Companies	wet eargo	Indian Shipping Companie
(1)		(7)	(8)	(9)	(10)	(11)	(12)
1951	•					25.15	91.00
1952						27.79	95.00
1953						28.78	100.00
1954						29.05	100-00
1955			8.17	8-17		35-21	76:80
1956		0.82	10.95	11.77	6.9	37-69	70 9
1957	•	1.98	11.79	13.77	14.4	39.54	70-1
1958	٠	2.47	12.68	15-15	16.3	41.81	69.67
1959		4.86	12.66	17.52	27.7	43.09	70.65
1960		6.01	14.24	20.25	29.7	47.70	70.1
1961		5.80	15-15	20.95	27.7	54.44	
1962		4.88	18.38	23.26	20.9	64.03	71.2
1963		5.01	24.58	29.59	16.9	69.88	64.8
1964		4.44	24.96	29-40	15.1	65.54	61.93
1965		5-77	23.12	28.89	20.0	61.36	
1986	•	6.63	23.94	30-59	21.7	55.83	57:12
1967		6.31	21.70	28.01	22.5	51.18	57-60
1968		6.09	25-98	32-07	18.9	52-81	50:80
1969	٠	9.05	24.86	33-91	26· 7	52.65	52:78
1970	• ,	10-93	19-02	30-00	36.6	42.35	55.09
1971	•	10.37	16-89	27.26	41.0	43.66	61-31
1972	•	10.76	10.24	21.00	51.2	38-16	73-16
		•					1,50

. TABLE No. 15(5)

DISTRIBUTION OF NUMBER AND TONNAGE OF COASTAL FLEET OF INDIA BY TYPE AND AGE

(AS ON 30-6-1973)

(GRT in '000)

Age Groups	Unc	ler 2 years	3-5	years	6-10	years	11-13	years
By Types	No.	GRT	No.	GRT	No.	GRT	No.	GRT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Cargo Liners				_	7	46	9	22
Bulk Carriers			~-		-		_	
Tramps					_	_	_	
OilTankers				_	_	_	1	. 8
OilOre Carriers .							_	
Passenger-cum-cargo		_	2	4	4	6	_	_
AIL TYPES	, -		2	4	11	52	10	30

TABLE No. 15(5)-Contd.

(GRT in '000)

Age Groups		16-20 y	cars	Over	20 years	All As	e Groups
By Types		No.	GRT	No.	GRT	No.	GRT
(1)		(10)	(11)	(12)	(13)	(14) - (1 <u>5</u>)
Cargo Liners .		11	40	15	31	42	139
Bulk Carriers .		حــ		-	_		<u>~</u> ;
Tramps					_	-	
Oil Tankers .				2	22	3	30
Oil Ore Carriers	•	مـ		_	-		
Passenger-cum-cargo		3	6	4	12	11	28
ALL TYPES	•	12	46	21	65	56	197

TABLE No. 15(6)

DISTRIBUTION OF NUMBER AND TONNAGE OF GOASTAL FLEET OF INDIA BY SIZE AND AGE

(AS ON 30-6-1973)

	IInder	2 years	3-5 y	cars	6-10	years)
Age Groups By Sizes	No.	GRT	No.	GRT	No.	GRT
	(2)	(3)	(4)	(5)	(6)	(7)
to de de la vive de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l					1	1
100-999 tonnes		_	2	4	6	1.3
1000-1999 tonnes		_			4	31
5000-9999 tonnes	_	_	_	_	_	
10000-19999 tonnes.				_		
20000-39999 tonnes 40000 and above .	_	_		_	_	
All Sizes			2	4	11	52

TABLE No. 15(6)-Confe.

B, Sizes	10125	11-15	cars	16-20	years (Over 2	0 year	s All	Age sups
		No.	GRT	No	GRT	No.	GRT	No.	GRI
(1)		(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15
100-999 tonnes .		2		1	7	7	2	11	5
1000-4000 tonnes.		6	14	18	9	9	19	30	68
50J0-9999 tonnes .		2	15	27	;	4	32	14	112
10009-19999 tonne	s .				1	1	12	1	12
2))]]]-39999 tonnes									-
40000 and above.	•						-		
All Sizes .	,	10	30	46	21	21	, 65	56	197

TABE NO. 13(7)

OF INDIA — BY TYPE AND SIZE OF VESSELS (AS ON 30-6-1973) (GRT in '000)

Size Groups	100	. 660	1000	4999	2000	-0999	1000	0:19999	20000	100.099 1000-1999 5000-9999 10000-19999 20000 and above Total Sizes	Fotal	Sizes
By Types No. GRT No.	No. C	H.	1	GRT No.	·!	GRI	GR.F. No. C	GRT	봉	CIKT.	No.	GRT
(i)	(3)	(2). (3)	€	3	(5) (6) (7)	5	(3)	(6) (9)	(10)	(11) (12) (13)	(12)	(13)
Cargo Lin-	8	5	2.4	37	10	52	1	1	1 -	i	42	139
Bulk Carri-	1	ı	i	1	i	j	i	ı	1	i	1	i
Tramps .	i	I	I	I	i	i	I	ı	i	ı	ſ	I
Oil Tankers	i	1	i	,1	C1	18	-	12	1	i	ဗ	30
Oil Ore- Carriers	I	I	1	1	1	1	1	ı	1	1	j	I
Passenger-	177	54	9	=	51	15	1	ĵ	1	1	11	28
ALL TYPES 11	=		30	63]	14 112	~	12	1	1	36	197

TABLE No. 15(8)

TREND IN THE AGE DISTRIBUTION OF NUMBER AND TON-NAGE OF INDIAN COASTAL FLEET

(1966 1973)

(GRT in'000) All Age Groups Under 6-10 11-15 16-20 Over Year Ticet 5 years vears vears years 20 years No. GRT No GRT No. GRT No GRT No. GRT No. GRT (2) (3) (4)75) (6) (7) (8) (9) (10) (11) (12) (13) (1)1966* . 2 5 44 104 95 69 ...323 . 346 1967* . 50 35 100 94 67 48 7 22 77 285 1968* . 8 12 46 93 32 91 1969* . 7 39 S 12 13 33 23 94 78 275 32 95 1970** 16 11 32 81 307 S 52 9 22 93 36 114 13 7 43 6 12 38 15 1971 €. 65 22 59 69 218 2 59 198 1972@. 11 52 9 31 15 59 22 52 1973@ 2 11 52 10 30 12 46 21 65 56 197

^{*}As on 31st March.

^{**}As on 28th Feb.

[£]As on 31st Dec.

[@]As or 30th Jun.

TABLE No. 15(9)

COASTAL TRAFFIC AND CARNINGS OF INDIAN UNDERTAKINGS
(1970-71 and 1971-72)

Public					
Sector	Private Sector	Total	Public Sector	Private Sector	Total
(2)	(3)	(4)	(5)	(6)	(7)
181	1,034	1,215	230	1,620	1,850
3,479	56,038	71,537	18,236	93,823	112,059
86	512	598		423	423
1,609	7,533	9,142	1,796	7,086	8,882
20,620	30,572	51,192		7,993	7,993
	(2) 181 5,479 86 1,609	(2) (3) 181 1,034 5,479 56,038 86 512 1,609 7,533	(2) (3) (4) 181 1,034 1,215 5,479 56,038 71,537 86 512 598 1,609 7,533 9,142	(2) (3) (4) (5) 181 1,034 1,215 230 5,479 56,038 71,537 18,236 86 512 598 — 1,609 7,533 9,142 1,796	(2) (3) (4) (5) (6) 181 1,034 1,215 230 1,620 5,479 56,038 71,537 18,236 93,823 86 512 598 — 423 1,609 7,533 9,142 1,796 7,086

Table No. 15(10)

GROWTH OF INDIA'S COASTAL TRAFFIC EARNING FROM NATIONAL SHIPPING (1950-51 to 1971-72)

(Rs. in crores)

Year	•							Freight	Fare	Total
(1))							(2)	(3)	(4)
1955-56			•			•		•	***	10-77
1956-57					•					13.74
1957-58			•		•				•••	12,86
1958-59			•							13.09
1959-60					-	•			•••	13.55
1960-61		٠	•		•	•			•••	13.74
1961-62			•	•					٠.	12*85
1962-63		•	•		•			•	•••	16.31
1963-64	•	•							•••	14,78
1964-65			٠						•••	13.35
1 965-66			•		٠.			11-60	0.83	12.43
1966-67	•	•			•		•	13.85	0.75	14-60
1967-68								11-74	1.06	12-50
1968-69	-	٠	-		•			9.93	0.90	10.83
1969-70	4				٠			8-97	0.74	9.71
1970-71		•	•			٠		12-27	0.92	13-19
1971-72		•						12-00	0-89	12.89

TABLE No. 15(11)

TRADE RANGES OF INDIAN COASTAL CONFERENCE FOR LINER CARGO

A. KANDLA-TUTICORIN RANGE

- 1. Gujarat Ports/Bombay/Mangalore.
- 2. Gujarat Ports/Malahar Ports/Tuticorin.
- 3. Ba nhay/Malabar Ports/Tutteorin.
- 4. Milibir Ports/Gijarat Ports/Bon'iny/Miharashtra Ports (excluding Bonbay), Mormagao and Misore Ports/Puticorin
- 5. Tuticorin/Gujarat Ports/Bombay/Maharashtra Ports, (excluding Bombay)
 Mormugao and Mysore Ports, Malabar Ports
- Multarashtra Ports (excluding Bombay), Mormugao and Mysore Ports/ Malabar Pirts/Tuticorin and Inter-Malabar Ports.

B. WEST COAST PORTS TO EAST COAST PORTS

- 1. Gujarat Ports/Cast Coast Ports.
- 2. Bombay/Last Coast Ports.
- 3. Maharashtra Ports (excluding Bombas), Mormugao, Mysore Ports and Malabar Ports/East Coast Ports.
- 4. Tuticorin/Last Coast Ports.

C. EAST COAST PORTS TO GOAST PORTS

- 1. Calcutta/Coast Ports.
- 2. Coromandal Ports/Coast Ports.
- 3. Madras/Coast Ports.
- 4. South Madras Ports/Goast Ports.
- 5. Andaman and Nicobar Schedule
 - (a) East Coast Ports to Andrewn & Nicobar Islands.
 - (b) Aodaman & Nicobar Isalads to East Coast Porte.
 - (c) Inter-Island Routes.

TABLE No. 15(12)

PREIGHT RATE OF INDIAN COASTAL CONFERENCE FOR VARIOUS ROUTES AND COMMODITIES (AS ON 30.6-1973)

(Rates in Rupees per tonne)

то	FROM		Salt in bul	lk	Rock Phosphate in Bulk	Coal in llulk
		Gujarat	Bombay	Tuticorin	Coroma- ndel	Calcutta
((1)	(2)	(3)	(4)	(5)	(6)
1. Gujarat		34.30 FIOT				58-54
2. Bombay	• • •	37.50 FIOT		45·40 FIOT		58-54
3. Other M	laharashtra	56•40 FIOT	•		98•50	
4. Mormus	740	56·40 FIOT			98•50	69,50
'. Mangale	ore	56·40* FIOT			98.50	64-95
6. Other 1	Aysore Ports	56·40* FIOT			98.50	64-95
7. Cochin		45·40 FIOT			98•50	56.12
3. Other I	Malabar	45·40 FIOT			98•50	• .
9. Tuticor	in				86.30	51.75

TABLE: No. 15(12)-(Contd.)

(1) (3) (4)	(5)	(6)
10. South Madras Ports 57-20		51.75 iagapat * nam & iddalore)
11. Madras 57.20 FIOT	67.60 50 bas	5.57F.O. i; (Incl. ircharges)
12. Goromandel Ports 57-20 PIOT	56·30 (F	50·05 Sakinada)
13. Vlsakhapatnam 57-20 FIOT	56•30	46-92
14. Calcutta 57.20 57.20 46.10 FIOT		•

^{*}Rs. II per tonue extra in ease of transhipment at Bombay.

Note.—All the above rates are subject to a bunker surcharge of Rs. 6-3 per tonne.

TABLE No. 15(12)_{Codtd.}

(Rates in Rupees per tonne)

то	. VD	ом			Salt	in Bags	;	Coalin Bagy
. 10 :2"	· FR	OM			Gojarat 😭	Bombay	Tuticorin	Calcutta /
2 1 ⁷ 9	(1)-				(2)	(3)	(4)	(5)
i. Gu	jarat Ports	•	•	•	34-30 FIOT		,	140.70/
, 2, Ba	mpay .	•	-	•	37.50 FIOT		45-40 FIOT	89.70
3. Oil	ier Afaharash	tra P	orts	•	56-40* FIOT			139-60
	ormogao	•	•	•	5G·40* PIOT			135-80
	angalore	•	•	•	56.40* FIOT			132-60
4 . 4	her Mysorn P		•	٠	56·40* FIOT			137.80
	alabar Ports	•	•	•	45·40 FIOT			149.80
8. Tu	ulcorin .	•	•	٠				127, 80
9. So	uth Madras I	Pon:	•	•	57-20 FIOT			118(50
10. 10	•	•	•	٠	57-20 FIOT			89.70
7.7	oromandel Fe		•	•	57-20 FIOT		•	89-70
.*	inkhapatosai	•	•	•	57-20 FIOT			E2+70
19. C	almina .	٠	•	٠	57-20 FIOT	57-20 FIOT		2. 2. 3.

[.] AR. 11 per toune durk in case of transhipment at Bombay.

Nora.—All the above rater are subject to a bunker surcharge of its. 5.50 per jours.

CEMENT

AL POLL RECORD

(Rates in Rupees per tonne)

TO FROM Guiarat*	Bombay	Malabar	Tuticorin	Madras
(2)	(3)	(4)	(5)	(6)
1. Gujarat Ports 32.60		68-10		
2. Bombay 43.90	·	60∙50	53-80	48-90
S. Other Maharashtra Ports		60.50	72-20	72.20
4. Mormugao . 63.50		60.50	72,20	72.20
5. Mangalore 63.50		60.50	72.20	72.20
6, Other Mysore Ports		60-50	72-20	72-20
7. Malabar . 60-50	45-10		60.50	72.20
8. Tuticorin 71.90		60-50		
9, South Madras Ports 86.80				
10. Coromandel Ports			71.90	
11. Madras			66-40	
121 Visakhapatnani			71-90	
13. Calcutta 96.20		,	.80-20	_ 72·90()

^{*}Rs. 2.00 per tonne surcharge on cement loaded at Sikka Port.

Norn.—All the above tales are subject to a bunker surcharge of Rs. 6.30 per tonne.

TABLE No. 15(12)-(Conid.)

TIMBER LOGS

(Rates in Rupées)

то	FROM	Gujarat	Malabar	Mad	Iras	Coro- Calcuta
		Per cu.M.	Per Cu.M.	Per tonne	Per cu.M.	Per Cu.M. Cu.M
,	(1)	(2)	(3)	(4)	(5)	(6) (7)
1. Gujara	t Ports	•	134-80	138-60	99-70	149-90 149-90*
2. Bomba	y	75-10	111-90	91-90	66-00	134-40108-10
3. Other Ports,	Maharashtra	. 112.70)**	109-40	78-9	0 169450
4. Morme	1830 •	. 112.70)**	109-40	78-9	0 169-50
5. Manga	lote .	. 112.7	0++	109-40	78.9	0 169-50
6. Other	Mysore Ports	112.7	0**	109-40	78.9	0 169-50
7, Malat	ar Ports			109-40	78-90	169-50
8. Tutico	rin .			91-90	66 • 0	0 113.00
9. South	Madras Por	ts		91-90	66-00	108-10
10. Madr	as	•				83-30
11. Coron	andal Ports			91-90	66-00	81-30
12. Visaki	apatnam			91.90	66-00	81-30
13: Calou	ia .			91.90	66-00	16.00

^{*}Timber squares, scantlings and planks.

^{**}Rs. 11:00 per cubic metre extra if transhipped at Bombay.

Note.—All the above rates are subject to a bunker surcharge of Rs. 6:30 per toage of cubic metre.

TABLE No. 15(12)-(Conid.)

2770224	TODOTT		

(Rates in Rupees)

		Po	mbay	Mah	rashtm	Mon	nugao	Mys	ore	Ma	labar
2	TO FROM	Per tonne	Per Rer Per Per Per Per Per Per Per Per Per Cu. M. tonne Cu. M. tonne Cu. M.	Per tonne	Cu. M.	Per tonne	Per Cu. M.	Per tonne	Cu, M.	Per tonne	G. K.
1	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)	(3)	(3)	(4)	(5)	(9)	3	(B)	(6)	(10)	(44)
 	1. Cularat Ports										

4. Mormugao

3. Other Maharashra Ports

2. Bombay .

- 5. Mangalore
- 6. Other My-

TABLE No. 15(12)-Contd.

j	(1), (2) (3) (4) (5) (6) (7) (9) (9) (10) (11)	1). (2) (3) (4)	(3)	€	(S)	(9)	(2)	(g)	(6)	(10)	E
1 %	7. Malabar Ports	81.00	81.00 73.00								
ఙ	8, Tuticorin.									91.90	91.90 82.20
ର୍ଗ	9. South Ma- dras Posts, 91.90 82.20 91.90 62.20 91.90 82.20 91.90	91.90	82.20	91.90	62.20	91-90	82.20	91.90	82.20	91.90	82.20
0	10. Madras . 65·10 58·40 91·90 62·20 91·90 82·20	65.10	58-40	91.90	62.20	91.90	82.20	91.90	91.90 82.20 91.90 82.20	91.90	62.20
ے 🛋	L. Coroman- del Ports. 80-20	80.20	71.90	128.60	115.20	128.60	115.20	128-60	71.90 128.60 115.20 128.60 115.20 128.60 115.28 128.60 115.20	128.60	115-20
4	2. Visakia. patnam • 80.20	80.20	71.90	128.60	115.20	128.60	115.20	120.60	71.90 128.60 115.20 128.60 115.20 128.60 115.20 128.60 115.20	126.60	115.20
~3	3. Calcutta. 62.20 73.90 138-60 124-80 138-60 124-30 138-60 124-80 128-60 124-30	62.20	73.80	130.60	124.80	138.60	124.80	130.60	124.60	138.60	124.90

Norm...Althe above rates are subject to a bunker surcharge of Rs. 6.30 per tonge or cubic metre.

TABLE No. 15(12)—Contd.

(Rates in Rupees)

TO FROM		Tea in cas	es per Gu.	n.	Ten in bags per tonne
	•	Gujarat	Malabar	Calcutta	Calcutta
William Control		(2)	(3)	(⁴)	(5
1. Gujarat Ports		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12B-60	71.90	349.40
2. Bombay		39-30	83-80	53.80	198.30
3. Other Maharashtra Por	ts .			97-20	239-70
4. Mormugao				97-20	239.70
5. Mangalore	,	59.00*		•	
6. Mysore Ports	٠.			97-26	289.70
7. Malabar Ports				97-20	239-70
8: Tujicorin	,	ı		89+40	218.70
9. South Madras Ports .	•	•		69.70	198-30
10. Madras			•	53.80	149-90
11. Coromandel Ports .				5B-B0	162-40
12. Visakhapatnam		•		58.80	162-40
13. Calcutta	. •				· 'c.

Note -Alltheabove rates are subject to bunkers wich arge of Rs. 6-30 per tonne or cu.m.

^{*}Rs. 11.00 per cu.m. extra in case of transhipment at Bombay.

TABLE No. 15(12)-Conid.

(Rates in Rupees per tonn

то	FROM		ac	GONÁL	٠ ز., •	COPRA
10	FROM	Maha- rashtra		Mysore	Mala- bar	Coro- Cal- mandal cutta
	(1)	(2)	(3)	(4)	(5)	(5) (7)
1. Gujar	at Ports	•			6.70	207-90 234-60
2. Bomb	ay .	•			6.90*	152.70 149.90
3. Other Ports	Maharashtra					189-10 233-30
4. Morm	ugao .			•		189 10 233 30
5. Mang	alore .	•		• •	•	189-10 233:30
6 Other	Mysore Ports	3				189-10 233-30
7. Malat	ar Ports	•			•	189-10 233-80
8. Tutica	orin .			•		207-90, 212-40
9. South	Madras	. 91.90	91.90	91.90	91-90	194-10 198:30
0. Madra	13 -	. 91.90	91.90	91.9Ô	91-90	152.70 149.90
1. Coron	andel Ports	. 128.60	128-60	128-60	128-60	152-70 149-50
2. Visakl	iapatuam	. 128.60	128-60	128.60	128-60	152.70 149.90
3. Calcu	tta	. 138.60	138-60	138-60	138-60	140-30

Per bag weighing upto 90 kg.

Norn.—Ali the above rates are subject to a bunker surcharge of Rs. 6:30 pe

TABLE No. 15(12)-Contd.

GENERAL CARGO

(Rates in Rupces)

TO	FRO	3.7			Gujarat	Во	mbay
10	PRO	17/1		Poton		Pe: ton	
	(1)			(2)	(3)	(4)	(5)
1. Gujara	t Ports	1	•	85-00	75-90	85 00	75.90
2. Bomba	У			85.00	75.90		
3. Other Ports	Mahar	ash	tra •	127.50	* 113-90*	85.00	75.90
4. Mormu	gao	•		127-50	• 113-90*	85-00	75 • 90
5. Other Ports	Myso	re		127.50	* 113-90*	85.00	75.90
6. Manga	lore		•	127-50	113-90*	85.00	75.90
7. Malab	ar Port	3		09 70	80.50	68-10	61.00
0. Tutico	rīv	•	•	124.00	111-00	91.90	82.20
9, South Ports	Madr	as		110-10	106-00	91.90	02.20
10. Madra	s .			91.9	0 82.20	65-10	50.40
11. Corom	andel	Por	ts.	109-4	90 60	80 20	71-90
12. Visakh	apatna	m		109-40	98 60	80-20	71 90
13. Calcut	ta			104.30	93.00	82.20	73.80

^{*}Rs. 11.00 per tonne or Gu m. extra in case of transhipment at Bombay North—(i) All the above rates are subject to a bunker surcharge of Rs. 6.30 per tonne or cubic metre.

⁽ii) Freight rates for fuel oil, petrol, crude, [diesel and sulphur are double that of general cargo rates

TABLE No. 15(12)—Conid
GENERAL CARGO—Contd,

(Rates in Rupees)

	TO 61			Maha	rashtra	Morm	ugao
то	FRON	1		Per	Per Cu m.	Per tonne	Per Cu.m.
-	(1)			(6)	(7)	(8)	(9)
I. Gujarat Port				127.50*	113-90*	127-50*	113-90*
2. Bombay .	•	•	•	85.00	75.90	85.00	75.90
3 Other Mahat	ashtea l	Ports		85.00	75.90	85.00	75-90
4. Mormugao .		•	•	85.00	75-90		
5. Other Mysor	e Ports			85.00	75.90	85.00	75-90
6. Mangalore .	•			85.00	75.90	85.00	75.90
7. Malabar Por	ts .		٠	91.90	82.20	91.90	82.20
8, Tuticoria .	•	•	•	103-50	94.00	103.50	94.00
9. South Madr	as Ports		*	91.90	82-20	91.90	82.20
O Madras .				91-90	82.20	91-90	82.20
1. Coromandel	Ports			128-60	115-20	128 60	115-20
2. Visalhapatna	m.			128-60	115-20	128-60	115-20
3. Calcutta .				138-60	124-80	138-60	124.80

^{*}Rs. II-00 per tonne or Cu m extra in casse of transhipment at Bombay.

Nores—(1) All the above rates are subject to a bunker surcharge of Rs. 6-30 per toane or cubic metre.

⁽ii) Freightratesforsueloil, petrol, crude, diesel and sulphur are double that of general cargo rates.

TABLE No. 15(12)—Cond.
GENERAL CARGO—Cond.

(Rates in Rupecs)

TO FROM	Malabar Tuticorin
TO FROM	Per Per Per Per tonne Cum.
(1)	(10) (11) (12) (13)
1. Gujarat Ports .	118-10 106 00 150-30 131.00
2. Bombay	93.50 83.80 115.20 103.99
3. Other Maharashtra Ports	91.90 82.20 103.50 94.00
4. Mormugao	91.90 82.20 103.50 94.00
5. Other Mysore Ports	91.90 82.20 103.50 94.00
6. Mangalore .	91.90 82 20 103.50 94.00
7. Malabar Ports	40.60 27.50 91.90 82.20
8. Tuticorin	91.90 82.20
9. Soulle Madras Ports	91-90 82-20 91-90 82-20
10. Madras	91-90 82 20 91-90 82 20
11. Coromandel Ports	128 60 115 20 130-60 117-20
12. Visakhapatnam .	128-60 115-20 130-60 117-20
13. Calcutta	138-60 124-80 138-60 124-60

^{*}Rs.11.00 per tonne or cu m. extra in case of transhipment at Bombay Notes.—(i) All the above rates are subject to a bunker surcharge of Rs. 6.30 per tonne or cubic metre.

⁽¹¹⁾ Freight rates for fuel oil, petrol, crude, diesel and sulphurar double that of general cargo rates.

TABLE No. 15(12)—Contd.

GENERAL CARGO-(Contd.)

(Rates in Rureet)

то	FROM	Mac	iras	Coron	andel	Calcutta	
	TROM	Per tonne	Per Cu.m.	Per tonne	Per Cu.m.	Per Per tonne Cas	
. (1)	(14)	(15)	(16)	(17)	(18)	
1. Gujarat P	ort .	138-60	99 - 70	124-80	89.40	140.70 100-	
2: Bombay	• •	91.90	66.00	91.90	66.00	89-70 - 61	
3. Other M. Ports .	laharashtra	109-40	78-90	113-00	81-30	139-80 100	
4. Mormuga		109-40	78-90	113.00 -	_	139-80 100	
5. Other My	sore Ports	109-40		113.00	81.30	139-80 100	
6. Mangalor	е.,	109-40	78-90	113-00	81.30	4. 7. V.	
7. Malabar	Ports .	109-40	78-90	113.00	_	139-80 100	
8. Thiseorin		91.90	66-00	124-80	89-40	127-80 91	
9. South M.	adras Por s	91.90	66-00	116.00	83.50	118-90 84-	
10 Madras.		-	_	91.90	66.00.	89.70 64	
11. Coroman		91.90	66.00			89-70 64-	
12. Visakhap	atnam .	91.90	66-00	-		89.70 64.	
13. Calculta	• ,	91.90	66-00		60-50		

^{*}Rs.11 00 per tonne orcu m. extra in case of transhipment at Bombs.

Notes -(i) All the above rates are subject to a bunker surcharge of R. 6.50 per tonne or cubic metre.

die Freightrates forfuel oil, petrol, crude, diesel and sulphur, art double that of general cargo rates.

TABLE No. 15(12)—Gonid. COTTON PIECE GOODS

(Rates in Rupec)

TO IROM		Gujara	nt	Bombay		
		Per tonue	Per Cu m	Per tonne	Per Cu m	
	(1)	(2)	(3)	(4)	(5)	
1. Guiz	rat Ports .	100 00	_	100 00	_	
2. Bom	bay	100.00	_		-	
3.Othe	n Maharashtra Ports	150 00*		100 00	-	
4. Mor	mugao	150 00*	· _	100 00	_	
5. Man	galore	150 00	, _	100 00	_	
6 Oth	er Mysore Ports	150 004	۰	100 00	_	
7. Mai	abar Ports .	_	88 60	75 40	67 60	
8. Tuti	corin		88 60	76 40	68 40	
9 Sout	h Madras Forts		106 00	_	82-20	
10 Ma	dras		82.20	_	58 40	
11 Core	omandel		98 60	_	59 70	
12. Vis	akhapa nam .	_	98 60	_	59 70	
13 Cal	cutta	_	93.00		67,60	

^{*}Rs.11-00 per tonne or cu m extra in case of transhipment at Bomba; Note:—All he above rates are subject to a bunker surcharge of Rs 6,30 per tonne or cu m.

Table No. 15117)—Cree. Cotton Tiece Goods. (Could)

fitates in Augmen

TO TO FROM	Mak	atailiera	Maymoure		
TO (g) FROM	Per tonue	Per Calta	Fr s	Per Ciama	
(1)	(6)	(7)	(G)	(9)	
I, Granat Ferts .	159.00	•	\$ 50-ma*	ارات الاستارات	
2. Hombay	100-00	_	100-00	-	
3. Other Maliacathics Ports	109-09	,	100-00		
A. Mormugan	100-00		100-00	*** **	
. 5. Alángalver	100-00	-	100-00	- <u> </u>	
ff. Other Mysser Ports	100-60	_	100:00	-	
7. Malabar Ports	-	62-20		82.20	
d. Taticarin		91.00	-	94:00 %	
Or South Madray Parts		82-20		82-20	
in, Madras		82.20	-	82 (20)	
14 Coromandel .		115-20		115-20	
12. Visakhapatham -		145-20		115-20	
is. Calema	-	124.8p	_	124-80	

TABLE No. 15(12) - Conid. - COTTON PIECE GOODS-(Conid.)

(Rates in Rupees)

사용하다 가게 하는 조심함.				(**************************************	1-01/2	
TO FROM		Mys	ore	Malabar	Tutico-	
		Per tonne	Per Cu. m.	Per Cu.m.	Per Cu.m.	
(*) (*) (U *)		(10)	(11)	(12)	(13)	
1. Gujarat Ports		150.00	-	106-00	134-80	
2. Bombay		100-00	-	83.80	103.00	
8. Other Maharasitra Ports		100.00	٠	82-20	94-00	
4. Mormugao		100-00		82.20	94.00	
5, Mangalore		100-00		82.20	94.00	
" 6, Other Mysore Ports		100.00		82-20	94.00	
7. Malabar Ports			82-20	37-50	82.20	
8, Tuticoria			94.00	82.20	أأحسدر	
9. South Madras, Ports		_	82-20	82-20	82.20	
10. Madras			82-20	82-20	82.20	
11. Coromandel			115-20	115-20	117-20	
12, Visakhapatnam			115:20	i 15-20	117-20	
13. Calcutta og . 15 v	••	,	124-80	124-80	69-80	

TABLE No. 15(12)—Cenid.
COTTON PIECE GOODS—(Cerid)

(Rates in Rupces)

то	FROM		South Madras	Coroman- del	Madras	Calcutta
			Per Cu m.	Per Cu m.	Per Cu m.	Per Cu m.
	(1)		(1 4)	(15)	(16)	(17)
1. Gujarat Ports			112-20	89-40	89+40	100-50
2. Bombay .			70 90	66 00	60.50	64.30
3. Other Mahar	aslitra Parts	•	78-90	01.30	71.90	100-20
4. Mormugao .		•	70 90	81.30	71-90	100.00
5. Mangalore .			70 90	81.30	71-90	100-20
6. Other Myzore	e Ports	•	78-90	81.30	71.90	100.20
7. Malabar Port		٠	78 90	81 30	71.90	100-20
8. Tuticorin .			66 00	09-40	60 50	91-90
9. South Madra	s Ports	-	66 00	83 50	60.50	- 84-40
10. Madras .	•		66 00	66 00		64.30
11. Coromandel			85 10	66.00	60.50	64.30
12. Visakhapatni			85-10	66-00	60.50	64.30
13. Calcutta .		•	93.50	60 50	45-90	

[•]Rs 11 00 per tonne or cum extra in case of transhipment at Bombay. Note.—All the above rates are subject to a bunker surcharge of Rs 6.30 per tonne or cum.

TABLE No. 15(12)-Contd.

FISH

(Rates in Rupces)

TO	Tine		Gujatat	Bombay	Maha- rashtra	Mor- mugao
10	FRC	J.V.1	Per tonne	Per tonne	Per tonne	Per tonne
(1)			(2)	(3)	(4)	(5)
1. Gujarat Ports .	. ,	•	85.00	85-00		
2. Bombay		•	85.00			
3. Other Maharathte	n Port	· 8	127-50*	85.00	•	
4. Mormugao			127.50*	85.00		
5. Mangalore .			127 50*	85.00		
6. Other Maysore Po	rts .		127-50*	85.00		
7. Malabar Ports .	•			104-80		
8. Taticorin				141-10		
9. South Madras Por	ts .				138-60	138.60
10. Madras		٠	212.00	175.00	138-60	138-60
11. Coromandel Ports					194-10	194-10
12. Visakhapatnam .					194-10	194-10
13. Calcutta			334.00	261-00	205.70	205.70

^{*}Rs 11-00 per tonne or cum. extra in ease of transhipment at Bombay.

Note —All the above rates are subject to a bunker surcharge of Rs. 6 30 per tonne or cubic metre.

TABLE No. 15(12)-Conid.

(Rates in Rupeei)

		Mysore	Malabar	South Madras	Madr	as Contract
го	FROM -	per tome	Per tonne	Per tenne	Per tonne	Per Cam.
	(1)	(6)	(7)	(8)	(9)	(10)
1. Gu	jarat Ports .			210-80	138-60	99-70
2. Bo	mbay · ·		138-60	165-40	91-90	65-60
	her Maharashtra		109-40	145:30	169-40	78-80
4.34	tmugas		109-40	145.30	109-40	78-50
51 M	angalore		109-40	145-30	109-40	, 70-90
6. O	her Mysore Ports		109-40	145-30	102-40	- 78-50
7. 34	alabar Ports .			145-30	109-40	្រុកនៃទី១០
a, Ta	alcoria		109-40	145-30	91-90	66.00
9, So	oth Madras Ports	138-60	138-60	109-40	91-90	. 66-00
10, 32	adrat 😘 .	138-60	139-60	103-40		
	gomandel Ports	194-10	194.90	130-60	91-90	66-00
12. VI	sakhapataam .	194-10	194-16	130.60	91.90	66-03
13. C	ilculta	253-70	205.70	165-40	91+90	66-00

[&]quot;Re.11-60 per sonne or cum extra in ease of transhipment at Rombay, North—All the above rates are subject to a bunker surcharge of Rs. 6-30 per content or cubic metre.

- LABLE No. 15(12)-Gontd.

100

FOODGRAINS

(Rates in Rupees per tonne)

TO PROM	Jujarat	Bombay	Viahara- shtra	Morm- ugao	Mysore	Malabar
三字字子(1)(2)	: (2)	(3)	(4)	(5)	(6)	(7)
1 Gujarat	80.00 52.70* 80.00 52.70*	80.00 52.70* 80.00 52.70*	80.00 52.70* 90.00 52.70*	52·70*	80.00	80.00 52.70* 80.00 55.70*
3: Other Maharashtra Ports	80.00 52.70*	30.00 52.70*	80.00 52.70*	80.00 52.70*	80.00 52.70*	80.00 52.70* 80.00
4. Mangalore	52·70* 83·00 52·70*	*8.00 52.78* *0.00 52.70*	80.00 52.76* 80.00 52.70*	80.00° 52.70° 60.00 52.70°	52.70* 80.00 52.70*	52.70 80.00 52.70
	80-00 52-70*	80·00 52·70*	80.00 52.70*	80.00 52.70*	80.00 52.70*	80.70* 52.70* 80.00*
8. Tuticorin	62.70*	32·70* 80·00 52·70*	52.70* 80.00	52·70* 80·00	52.70* 80.00	52.70 80.00 52.70
3. South Madras Ports	61-40* (FIOS	51.40* E	PIOS	52·70* 6 4·40* PIOS	FIQ5	64.40 F1,05.
Or Madras	54·40* FIQS	64.40* FIGS	64·40* EIQS	64·40* EIQS	64.40*	64.40 ELOS
11. Goromandel	61-40* FIOS	64·40* FIOS	+64-40' FIOS		-	* 67.4°
12. Visakhapatham	64-40* FIOS	64.40* FIOS	64.40* FIOS	64-40• FIOS	64-40* FIOS	64,40°
13. Calcutta	64.40* FIOS.	64·40* FIOS	64-40* F1OS	64·40*	64.40* FIOS	64,40' FIOS

Nore. 1. All the above rates are subject to a bunker surcharge of Rs. f. an netonne or cum. except the rates marked by asterisk.

^{2.} The rates under columns 2 to 8 are as follows: 12 PRS 80-00 onliner terms. 12 PRS 80-00 on C/P. Terms. 2017

"TABLE No. 15(12)-Contd.

FOODGRAINS-Contd.

(Rates in rupees per toane

TO	FRON	1	Tuti- corin	South Madras	· Madras	Coro-mandel Calcutta
0,000	(1)		(8)	(9)	(10)	(11) (12)
	rat .	•	80.00 52.70*	138-60		121-90 . 130-60
	bey .	•	80·00 52·70*	100-20	74-60	83-80 74-60
· vijarat if	\$ 455.60	shtra	80.00 52.70*	77-20	65-10	65-10 65-10
Bubay	murao .	•	80.00 52.70*	77-20	65-10	65-10 65-10
Oth Mar	salore .	•	80-00 52-70*	77-20	65-10	65-10 65-10
6. Oth	r Mysore	Ports	80.00 52.70*	77-20	65-10	65-10 65-10
7. Mal	abar Ports		80.00 52.70*	77.20	65-10	65-10 - 65-10
8. Tuti	corin .	•	80·00 52·70*	66-40		56-80 74:60
9. Sout	h _m adras I	?orts	64·40* FIOS	38.00	53.80	68-40 67:20
10. Ma	dras .	•	64·40* FIOS	38-00		41-80 51-80
11. Cor	omande1	•	64-40* FIOS	83.80		45-90 73-90
12. Vis	akliapatna	tn .	64.40° FIOS	83.80		15-90 73-00
13, Cal		•	64-40* FIOS	73-80	51-80	45-90

North.—1. All the above rates are subject to a bunker surcharge of Rs. 6-20 per tonne or cu.m. except the rates marked by asterisk.

^{2.} The rates under columns 2 to 8 are as follows: Rs. 50.00 en liner terms.
Rs. 52-70 on CIP Terms.

MANURES

TO FROM Gujarat	Bombay	Maha- rashtra	Morm-		M <u>r</u> Per m.
(2)	(3)	(\$)	(5)	<u> </u>	7)
1. Gujarat Ports 44-00	44.00	66-00*	66.00*	66	.90
2. Bombay 44.00		44.00	44.00	4	.60
3. Other Maharashtra 66.00	* 44·00	44.00	44.00	44.00	
4. Mormugao	* 44.00	44.00	44.00	44.00	91.92
5. Mangalore 66.00		44-00	44.00	44.00	91.90
6. Other Mysore Ports 66-0	_	44.00	44.00	44.00	91.90
7. Malabar Ports 59.7		74.60	74.60	74.60	••
8. Tuticorin			86.40	86.40	91.90
9. South Madras Ports. 86.8		91.90	91.90	91490	91-90
و مشروع		71.90	71.90	71.90	71-90
IV. Madras	50 -80-20		75.40	75-40	75.40
111000000000000000000000000000000000000	50 80-2		0 75.40	75.40	75.40
12. Visakhapatnam 86.	. /	0 . 75.4	0 75.40	75.40	75.40

Rs. 11-00 per tonne or cubic metre extra in case of transhipment at mibay.

Note.—All the above rates are subject to a bunker surcharge of Rs. 5-30 Bombay.

TABLE No. 15(12)—Contd.

MANURES—Contd.

(Rates in Rupees per tonne)

TO PROM	Tuti- corin	South Madras	Madras	Coro- mandel	Calcutta
(1)	(8)	(9)	(10)	(11)	(12)
1. cularat litta	149.50	140-70	100-20	124-80	140 70
2. Bubay	115-20	100-20	55.40	83-80	89.70
3. Other Maharashtra	103-50	100-20	68-10	100-20	139.80
4. Mormusao	103-50	100-20	68.10	100-20	139-80
5. Mangalore	103-50	100-20	68-10	100-20	139-80
6. Other Mysore Ports	103-50	100-20	68-10	100-20	139 80
7. Malabar Ports .	91.90	100-20	68-10	100-20	139.80
B/Tuticorin;		83-80	68-10	116.00	127,80
9. South Madras Ports	68-10	66-40	75-40	108-60	118-90
10. Madras	68-10	73.00		83.80	95 00
11 Coromandel	91.90	97-20	53.80	83.80	89.70
12. Visakhapatnam	91.90	97.20	53.80	83-80	89-70
13. Calcutta	100-30	107-10	51.80	63·80	1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3

^{*} Rs. 11-00 per tonne or cubic metre extra in case of transhipment.

Note.—All the above rates are subject to a bunker surcharge of Rs. 6-30 per tonne.

TABLE No. 15 (12)—Contd.

(Rates in Rupees)

TO FROM		Gujarat	M	láharash	ira]	Mormugao
	Per	Per Cu.m.	Per tonne	Per Cu.m.		
是一种。(1)公司。	(2)	(3)	(4)	(5)	(6)	(7)
. Gujarat Parts:	00:88	34.60	87.00*	51.904	87.00	51.90
2; Bombay 5	00.8	34.60	50.00	34.60	58.00	34.60
3. Other Maharashtra Ports 8	7.00 *	51.90*	58.00	34,60	58.00	34.60
4. Mormugao 8	7.00*	51.90*	58.00	34.60	•	•
5. Mangalore 8	7,00	51,90*	58.00	34.60	58.00	34.60
6 Other Mysore Ports . 8:	*.00	51,90*	58.00	34.60	58.00	34.60
7. Malabar Ports	89.70	80.50	-		•	****
8. Tuticorin	4.00	111.00				
10. South Madras Ports 1	01,81	106.00	_	82.20	(NEW)	82,20
l I. Madras	1,90	%82.20		82.20	(NEW)	(NEW) 82.20
12. Coromandel	9.40	98.60	1 1	115.20	(NEW)	(NEW) 115.20
13. Visakhapatnam 🤞 📜 10	9,40	98,60	<u></u> 1	15.20	(NEW)	(NEW)
14. Calcuttn A 3 3 3 2 2 10	4.30	93.00	I	24.60 4	NEW)	(NEW) 124.80.

^{*}Rs:11.00 per tonne or cu.m. extra in case of transhipment at Bombay.

**Surcharge of Rs. 2.00 per cu.m. extra.

Norn.—All the above rates are subject to a bunker surcharge of Rs. 6, 30 per tonue or cu,m.

TABLE No. 15(12)- Contd.

GUNNTES

(Rates in Rupees)

TO FR	OM		Mys	ore	Mala		Goro- Calcumandel tra
			Per tonne	Per Cu.m.	Per tonne	Per Cu.m.	Per Per Cu.m. Cu.m
(1)			(8)	(9)	(10)	(11)	(12) (13
1. Gujarat Por	ts		87.00*	51.90*	118.10	106.00	98.90 78:30*
2. Bombay	•		58,00	34.60	93.50	83.80	53.80 69.20
3. Othe Mal	arasht:	ra •	58.00	34.60	91.90		98.90 99.40
4. Mormugao			58,00	34.60	91.90	82.20	98,90 99,481
5. Mangalore			58.00	34.60	91.90	82.20	98,90 99,40
6. Other Mysor	e Ports	: 17	58.00	34.60	91.90	82.20	98.90, 99.40
7. Malabar Por	rts		_	_			98.90 ,99.40
B. Tuticorin				_	91,90	82.20	88.90 92.90*
9. South Made:	as Ports			82.20	(NEW)	82.20	83.50 68.30*
10. Madras .				82.20		NEW) 82.20	46.80 69.30*
l L. Coromandel				115.20	(NEW)	(NEW) 115.20	58.80 -67.40*
12. Visakhapate	am			115.20		NEW) 115.20	58,80 67.40*
13: Calcutta				124.80		(NEW) 124.80 (NEW)	58.80

^{*}Rs.11.00 per tonne or cu.m. extra in case of transhipment at Bombay

^{**}Surcharge of Rs. 2.00 per cu.m. extra.

Norz.—All the above rates are subject to a bunker surcharge of Rs.6.5 per tonne or .m.

TABLE No. 15(12) - Contd.

JUTE AND JUTE PRODUCTS

(Rates in Rupces)

	FROM	jute goods (NOE)	jute pre	sed	jute unp	ressed	jute Waste
٦		Gujarat (Per tonne)	Gujarat (Per tonne)	Calcu- tta (Per Cu m.)	Gujarat Per tonne)	tta (Per tonne)	Calcu tta (Per Cu.m.
(1))	(2)	(3)	(4)	(5)	(6)	(7)
I. Gujarat Por	ts .	•••	••	101,50		253.90	
2. Bombay		58.00*	58,00*	63.30	116.00*	168.70	
3. Other Maj	harashtri	3		69.90		252,50	
4. Mormugao				69.90		252.50	
5. Mangalore	• •	87.00*	87.00**		174.00*	232130	
6. Mysore Por	tas .	07400	67.00	69.90	.,,,,,,	252.50	
J. Malabar Po				69,90		252.50	
8 Tuticorin				88.30		230.20	
9. South Mad,	as Ports			83.10		217.70	
10. Madras .				63.30		168.70	56,60
11. Coromandel				63.30		86.90	
12. Visakhapatp	ıam .			63.30		86,90	
13. Calcutta		,				•	

^{*}Not subject to surcharge of Rs. 2.00

^{**}Rs 11.00 per tonne/cu m. extra in case of transhipment at Bombay Nore.—All the above rates are subject to bunker surcharge of Rs. 6.30 per tonne or cu m. as also further surcharge of Rs 2.00 per tonne/cu.m.

TABLE No. 15(12) - Contd.

JUTE AND JUTE PRODUCTS (Rates in Runco

Jute Old twine . Jute in bags Calcutta Calcutta Coromandel (Per (Per tonne) Per Per tonne) cu.m. tonne 1. Gujarat Ports (8) (9) (10) (11)2. Bombay 3. Othe 89,40* 250.10 253.20 249.70* Port ...ay 158,20 168,00 183,20* 66,00 . Other Maharashtra Ports . 270.30 81.30 251.50 226.70* 4. Mormugao . 270,30 251.50 81,30 226.70* 5. Mangalore . 99.40 6. Mysore Ports 99.40 270.30 251,50 81.301 226.70* 7. Malabar Ports 99.40 270.30 251.50 226.70* 81.30* 8. Tuticorin 92:50 215.50 230.90 249,70* 89.40* 9. SouthMadras Ports. 88,30, 235.50 216.70 83.50* 233.20* 10. Madras 158.20 63.50 11. Coromandel Ports 168.00 151.10* 54.309 158,20 160.00 183,20* 66.00* 12. Visakhapatnam 158.20 66.00* 13. Calcutta 183,20* 60.50 167,80*

Not subject to surcharge of Rs.2.00.

Norn.—All the above rates are subject to bunker surcharge of Rs, 6.30 per tonne or cu.m. as also further surcharge of Rs, 2.00 per tonne/cu.m.

NAUTICAL DISTANCES BETWEEN SELECTED INDIAN PORTS

From/T			Kandla Bom- Mor- Man-	Bom-	Mor	Man	o e	Tuti	Mad	Mad Visa	Para Hal	Hal	183
	•	(;		~13		ξ , "#	: ;		. ,	tanam			
(1)			(2)	(3)	(4)	(2)	(9)	(7)	(0)	. (6)	(1 Õ)	(11)	(12)
Candla .		٠	:	1 33	613	623	968	968 1269 1862 2120	1862	2120		64	2502
. Navlakhi	•	•	35	4.40	620		975		1859	2127		.,	2509
· Bedl .	•	•	33	418	598	560	953	1206	1837	2105			2487
Sikka.	•	•											
Oklia.	•	•	11	321	519	676	869	869 1089 1740 1997	1740	1997		.,	2270
Porbander .	•	•	176	244	**	602	795	1015	1668	1925			2198
Veraval .	٠	٠	241	198	392	384	743	743,1009 1627	1627	1895	2240		2277
Bhawnagar .	•	٠	£08	200	410	403	770	770 1019 1601	1601	1921		••	2303
Arnala	•	•								ا مرکب مرکب			
Трана.	•	•				,	3))))			! تارى		
Elephanta .	•	*		,			mall	(6)	tta (Per tonne)	Calcu-			
						,		(7)	(Per Cu.m.	Calcu- tta (Per Cu.m.	ute Vaste	ي	
							-	•					

TABLE No. 15(13)-Could.

Ξ			(3)	3	4	(ડે	(9)	3	<u>e</u>	<u> </u>	3	(10) (11) (17)	7
			5		223	388	580	803	1453	1707	÷	÷	1980
Bombay .	•		2	:	į		•	;	:	:	:	:	:
Mora .	•	•	: ;	: 5	: :	:	491	657	1410	1760	:	ŧ	2225
Datmagiri		•	633	201	3	:	:	}			:	:	:
Dad.	•	•	:	:	:	•	÷	:	:		:		
· Icai			613	223	:	170	360	583	1233	1487	:	:	1/00
Mormugae .	•	•	2	,	:	:	:	:	:	:	:	:	:
Karwat.		•	:	:	•		:	:	:	:	:	:	:
Beliker! .	•	•	:	:	:	:			:	:	į	:	:
Honavar .	٠.	•	:	:	:	:	:	•		. :	ŧ	:	:
Coondinoor	•	•	:	:	:	•	:	:	:	; ;		:	:
Malan		•	:	:	:	•	:	:	:				
officer	•		203	398	170	:	191	11	1061	1315	:	:	1588
Mangalore .	•	•	24.0	3	•		;	:	:	:		:	
Azhlkhal	•	•	:	: 6	. 080	Ξ	83	311	996	1220	:	:	1493
Calient	•	•	:	2				998	883	1137	:		1410
Cochin	•	•	968	25.5	200		. 2						1380
Alleppey .	•	•	:	010		4	;				Ī	1	1
Koilthottam	•	•	:	: [: ?		73	154		_		:	1541
Quilon	•	•	:	100		202	-		745			:	1282
Polachel	•	•	:	?									

				T	TARLE No. 15(13)-Count	15(13	3	7			İ	
SAD A SAME	31	1.75	3	3	€	3	(9)	(2)	(8)	(a). ((10)	αŋ
Tutleorits	. ;	1		603	583	117	225		728	266		
Pamban	•			Ç		•	•			:	•	` ! :
Kifakarai	٠.		•	-	•	,u - -		•			,	
Nagrapattinam	٠.		. :	1325	1105	933	735	610		461		
Cuddalore	٠.	٠.	:	1376	1156	984	908	. 199		416		;
Pondicherry.	٠.	٠.	. :	1387	1167	395	317	672		402	· •	, : ,
Madras	٠.	٠.	1852	1453	1233	1001	883	728	:	328	:	:
Krishnapatnam	•	•	:	:	į	:	:	:	:	:	:	:
Machlipatoam	•	٠.	:	:	:	:	:	:	:	:	:	;
Kakinada .	•		:	፡	;	:	:	:	:	:	:	:
Visakhapatnam		••	2120	1707	1487	1315	1137	392	328	:	:	:
Blimunipatam		٠	:	:	:	:	:	:	፥	÷	;	:
Kalingapatnam		•	:	1754	1534	1362	1184	1039	33-6	63	:	:
Copalpur	,	•	:	1819	1599	1427	1248	1103	424	134	:	:
Puri			;	1963	1643	1171	1293	1148	211	194	÷	i
Paradeep .		•	;	:	:	:	፥	;	:	:	ŧ	:
Chandbali .		٠	:	:	:	:	÷	:	:	:	:	:
Haldia	•		;	1925	1705	1533	1355	1210	009	285	:	•
Calcutta	٠	•	2502	1930	1760	1588	1410	1265	655	340	:	·OI

(112) 740 778 695 695 695 310 310 310

OF COAL, PORTS.

TABLE NO. 15(14)

From/To		Kan-	Bom- bay	Mor-	Kan. Bom. Mor. Man. Co. Tuti. Madla bay mugao galore chin corin ras	Sid.	Tutí- Mad- corin ras	4	Visa- kha- patnam	Para- decp	Ifal- dia	e de la company
ε		3	3	€	3	9	(2) (9)	(e)	(6)	(10)	(5) (11) (01) (6)	(12)
											- '	
I. Kamila	٠	:	:	· :	÷	:	፥	፥	:	:	:	
7. Bombay	•	80.4		ŧ	:	:	:	:	:	፡	:	•
Mormingo .	•	1534	780	:	:	:	:	:	፥	:	:	
4. Mangalore .	•	2072	1268		:	•	:	:	:	፥	: ,	•
Cochin	•	2696	21.17	16.17	428	;	÷	•	•	:	÷	:
G Tuticorta		:	:	1168	453	393	:	:	÷	:	:	•
7 Madras	•	2087	1283		988	714	651	:	:	:	:	
Vicathanam		2119		1288	1638	1444	1431	780	į	:	:	:
0 December				1843	2190	1998	1985	1334	558	:	;	;
9, Landdeep		9418			2515	2323	2311	1659	879	493	:	`.
fir Calentin		2.418				2323	2311	1659	879	493	143	
							•					• ;

TABLE No. 15(15)

RAILWAY FREIGHT RATES FOR THE MOVEMENT OF COAL, SALT, CEMENT AND TIMBER BETWEEN IMPORTANT PORTS.

(As on 1st April, 1973)

		•		(B	s. Per to	, ,,,,,,
Port tonnes taken	Rail dista-		F	reight R		Waste
	nces In Kms.)	Hard Coke	Other Coal	Salt	⇔∮ (Per	tta (Per
(1) (1)	(2)	(3)	(4)	(5)	tonne	
Kandlato Bombay	804	37.20	33.80	41.80	(6)	(7)
Bombay to Mormugao .	780	35.70	32.45	40.10	4700	٠,٦
Mormugao to Mangalore	768	35.40	32.15	38.70	46.80	0
Mangaloreto Cochin .	428	23.05	20.95	26.20	30.70	33.80
Cochinto Tutlcorin	393	21.95	19.95	24.90	29.20	32.10
Tuticorinto Madras .	651	31.35	28,50	35.40	41.70	45,80
Madrasto Visakhapatnam	780	35.70	32.45	40.10	47.30	52.00
Visakhapatnam to Paradip	558	27.75	25.20	31.50	37.00	40.70
Paradip to Haldia		25.60	23.25	29.10	34.20	37.60
Haldiato Calcutta	142	12.30	11.15	13.40	15.50	17.00

Via Hassan-Mangalore Rad-link under construction.

PART-III SECTION 16: TRANSPORT AND FIVE YEAR PLANS

TABLE No. 16(1)

DISTRIBUTION OF TILT YEAR PLAN OUTLASS AND EXPENDITURE

(Rs un crores)

Sectors		First	Plan	Secon	d Plan	Third	Plan	Fourt'	b Plan
Sectors		Act-	ootol total	Act- unl	% to total	Act-	% to total		oto tota
(1)		(2)	(3)	(1)	(5)	(6)	(7)	(8)	(9)
A-Public Sector :									
Acriculture & C. D Irrigation* Power Village & Small Indu	stric	290 431 119	15 22 8 2	519 130 452 187	12 10 9 4	1089 664 1252 236	19 8 15	2728 1037 2448 293	17 7 15
industry & Minerals Transport & Comp	_	55	3	998	20	1736	20	3738	21
entions Social Services Miscellaneous Inventories	:	518 412 60	26 21 3	1261 770 85	27 16 2	2112 1493 %		9297 2771 —	20
Total (A)	٠.	1960	100	4672	100	8573	100	12903	TOD
B. Private Sector : Agriculture Irrigation C.D.		-				•			
Power Village & Small indu Industry & Minerals Transport & Comm			•	675 40 225 725		850 50 825 1100	20 1 8 25	1600 75 560 2000	18 1 6 22
cations Social Services Inventories	;	• • • • • • • • • • • • • • • • • • • •		135 1000 500	4 31 15	250 1125 600		920 2225 1600	10 25 18
Total (B)	•	1600	100	3300	100	4300	100	B _p 8o	100
Total (A)+(B)	•	35Ga		797=	7	2873	2	4882	

^{*}Including Plood Control.

[%]Included under social service

Elexpon titure in respect of inventories distributed under various heads. Source . Planning Commission.

YEAR-WISE PLAN

Heads of Development Year	Davelo	1	Agricul- tural & Commu- nity Deve- lopment	Irrigation and Power	Industry & Mining	Transport & Communication	Social	Other Program- nust	Total
	Ξ		(2)	(2)	(+)	(5)	(i) (g)	(4)	(0)
			29.33	83.37	10.62	68-75	64.57	.2.96	239.60
20-1001		•	29.98	97.79	9.39	63.79	63.97	2.61	267-53
1954-55	-		16.00	111.52	18.36	85.68	68-33	i3.15	343.07
1003-04	•	•	75.79	131-41	21.51	133.76	91.13	22.32	475,92
1954-55	•	•	108.79	158.79	36-92	165-83	123-91	19-61	16, 619.
1955-50	•		10-69	162.52	81.52	216-93	87.93	14.92	632-03
1000cc1	•		85-82	96-091	227.28	286-72	106-69	16.72	884-19
00-7561	•		91.601	164-71	279-34	283-89	143.64	20.70	1001-44
09-6661	•. •		124-87	176-57	268-83	234-14	185-21	20.57	1010-51
								· ·	

TABLE No. 16(2)-Contd.

	Ξ			(2)	(3)	9	(5)	(9)	(2)	(8)
				1,40214	06.006	218.56	278-07	206.47	26-89	1071-03
1900-61	•	•	•		912.19	235-84	296.50	158 41	23.87*	1130-26
1961-62	•	•			26 92	298-93	374.55	217-86	23.50	1385 54
1962-63	•	•	•		381 93	391-26	159-73	214.81	28.40	1713 65
1953-64	•	•			455-15	158 41	506 20	316 07	26 84	2014-76
1964-63	•		`	307-13	537 52	532 60	74 73	394 52	35.49	2332-29
1963-00		•		33 \$ 27	353 08	557-22	123 86	268.78	27-30	2164.51
79-9961		•		313 62	511 27	513.25	397 90	290 41	28-48	2084 93
99-7961		•	•	439 19@	589-09	566.10	100-59	325-41	35.58	2375-96
1969-70 (E)	Ð		•	330 06@	654-50	484 89	410.82	278 51	31-13	2176.30
1970-71	•	•	٠		:	:	501.53	:	:	:
1971-72	•	•	•		•	÷	635.01	፧	:	:

[&]quot;Includes Rehabilitation from 3rd Plan onwards. Chadudes provision for buffer stocks.

Seales : Planning Commission. (D) Letimited.

Wind Williams and Bredner

- Jie. . .

Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Ex- Out- Iny part of the color of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out of the color out		25	1931-56	1956-61		1961-665		1000			2	70 .71 .72	7.7
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		oği Ya		1	Ex- linic		Sx- Constant	July D	Hare	10 T	2 5.1 E	ned a	X Best
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(1)	3	6	€	3	9	3	(6)), (01), (6)	(0)	E	2	13
$\begin{array}{cccccccccccccccccccccccccccccccccccc$) Rallways	267	217	96	723	063	1326	592	509	1050	e E	191	219
Juding 37 26 45 33 242 297 27 46 37 26 45 33 3 24 29 3 54 34 35 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 46 23 47 24 25 47 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25 48 25	() Roads	دم					. 10	201	309	871 106	106	133	165
luding 37 26 45 33 93 54 53 54 62 3	1) Road Transport .	51.47		263	242	297	27	46	55	92	9	6	25
26 19 48 53 \$153 40 23 	f) Ports' (Including minor ports)			5	33		93	**	53	195	20 ^	£3.	4
Water 4 6	5) Shipping			#8	53	7.53	0	23	32	1-1	61	.37	21
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i) Inland Water	·	•	ı	Ì		4	9	9	12	7	. ณี ,	(54 1)
	') Light Houses .	l	l	l	ļ	l	nipe	ÇI	27	~			
29 23 43 49 55 49 85	9) Civil Air Trans.	20	57 57	43	40	53	£	85	99	203	30	29	32

DISTRIBUTION OF PLAN OUTLAYS BY MODE OF TRÂNSPORT TABLE No. 16(4) (1951 - 1974)

	Ist Plan	IInd	IIIrd Plan	IVth Plan	Percen	tage di	Percentage distribution among different modes of Transport	among ransport
Mode of Trasport	Rs. in	Rs. in	Rs. tn	R. in erores	rage and	Pala	nelq dah	tVth plan
(1)	(2)	3	Ξ	3	(9)	3	(8)	(6)
Railways	258.5	860 1	1326-0	1050.0	54.2	9-69	67.0	\$1.0 *I
Roads and Road Transport	146.8	241.8	567.0		30.8	19.5	23.6	37.6
Ports	27.6	33 4	93 0	195.0	5.3	2.1	4.7	1.6
Shipping	1.8.7	17.7	0 0\$		3.9	3.9	2.0	5,13
I.W.T.	6 1	4 2	4		†·0	0.3	0	0.1
CivilAir Transport	23 2	49.0	19.0		4.9	4.0	50	7.9
Total(Trusport Sector)	476 74	476 71 1236-2 1979-0 2561-0 100-0	1979-0	2564.0	100.0	100.0	100.0	100.0

Sourer: Ist, IInd, IIIrd and IVth Plan documents.

FOURTH PLAN OUTLANS ON THANSPORT (STATE-WISE)

4/616.0	20.02	1039-00	107.00	1212:00	7467-00	37661.00	•	Total (States)
1012.0	1	00.70	12.00		133.00	1420,00		West Bengal
5775.0	ł	20.00	1	}	725-00	2000.00	٠	Uttar Pradesh .
950:0	Ĭ	50.00	1	j	50.00	850-00	-	Rajasthau
2369-0	25.00	30-00	1	I	800-00	1514.00	٠	Punjah
1229-0		32.00	ļ	3.00	222.00	1300.00	•	Orisra
1203-00	1	25.00	ļ	ļ	125.00	1033.00	٠	Napaland
1450-00	ľ	23.00	!	125-00	100.00	1200.00	•	Myzore
6702-6	30.00	100.00	-	355-00	1230-00	3300-00	•	Mulacaslatea .
2026-00	1	26.00	I	1	100.00	1600.00	•	Tamil Nich
2876-00	*	20.00	Ī	I	300.00	7550.00	٠	Madhya Pradesh
1965:00	4	20.00	30.00	210.00	550.00	1125-00	٠	Kersla
2311-00	1	370.00	1	I	350.00	00-1607		Jammi & Kashmir
2100-00	25.00	75,00	1.	}	300.00	1300.00	•	Kiryana .
3020-00	はまれる	20.00	ľ	200,000	800.00	2300.00	•	Gujarat .
3004-00		20.00	00.8	1	333500	3123+00		Bihar
00:0004.			122.00	į	607.00	3327.00	٠	Arrani
2170:00	を行るが	2.00	. 13:00:	50,00	200.00	2243.00	٠	Andhra Pradesh ,
				 G	÷,`	1		States :
(0)	: : (Q); ; ;	(9)	; (s) : 🦪	. (4)	(3)	(2)		(1)
Total	Transport Total	Tourism.	Shipping	Parts & Harbours	Road] ransport	Rands Transport Harbours Shipping		State/Union
101110 Lines 110 110 Lines 110 Lines	1	And the same of the same	A Commence			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

These figure fieve been revired since the publication of the Fourth Plan.

	(2)	6)	(+)	(2)	(6)	(C)	(8)
Union Territories							
Andaman & Nicobar Islands	425-00	38.58	236-40	83.00	3.75		786.73
Chandigarh Madra & Nagar Haveli	10.00	iı	[]	11	. 4.00	1 1	42.50
Denkt	300.00	1000-00	25.00	97.00	29.00	11	2078:00 451:00
Ilmachal Pradesh	2000-00	157-00	I	1.	75.00	ı	3032-00
Laccadive & Minicoy	2.00	1	3.00	I	į	ñ	10.00
Maniour	1000-50	80.00	1	I	2.35	I	1170-85
NEFA .	555-55	į	I	į	I	43.00	598-55
Pondscherry	97.00	1	. 00-91	! •	10.00	Į	123.00
Telpura	700-00	00.09	I	1	2.00	į	, 765.00
Total	7101-55	1335-58	202.40	180.00	129-10	43.00	43-00 9071-63
Grand Total	44762-55	44762-55 8802-58 1494-40-	1494-40-	367.00	1160-10	123.00	123.00 56717.63

TABLE No. 16(0)

PLAN	OUTLAYS AND EXPENDITURE ON	novns (Re. 1)	
		1966-67	3) -
State/Union	Plan	int. Out- Expr. Out- Expr. Out- E	
Territory		(11) (11) (10) (11) (13)	. 1
(1)	(2) (3) (4) (5)		
Tout States	8637 9717 15077 15079 22081 25085		. 64
Total	677 462 1333 1650 2325 2839	759 1001	ر الماران الطائران
Omionitia	9314 10179 16412 16729 24106 27842 5721	5920 6120	1.
Grand Join		(14.14.1)	•
	02-6961	1970-71	· '5:
State/Union	Out. Expr.	Out- Expr. lay	. 1
The state of		(10) (11) (11) (16)	
(1)		6.405	, IG
Total-State	5		ısı
Total— Union Territories	1176 1507		0
Grand Total	3577 3758	7830 2020	1::
		VE.	,

State/Union Territory Out. Expr. Out. Expr. Out. Expr. Out. Expr. Out. Expr. Out. Expr. Out. Expr. Out.		Plan Expr.	1 a a	Plan. Expr.	3rd P	lan. Expr.	1966 Out-	-67 Expr.	1967 Out-	Expr.	1961 1961	69 Rabi
(2) (3) (4) (5) (6) (7) (6) (9) (10) (11) (12) (13)	(2)	€	E P	· 33	(6)	3	(e)	6	(10)	E	(12)	3
Total-States	862	862 1015 1303 1557 2044 1948 1413 1819 1370 1613 1185 1556.	1303	1557	2044	1948	1413	1819	1370	1613	1185	155
Total Union Tetritories	28	28 25 51 91 559 610 195 133 205 176 210 : 114	51	91	559	610	195	133	202	176	210	Ξ.
Grand Total . 890 1040 1354 1648 2603 2588 1608 1952 1573 1789 1395 1670	890	1040	1354	1648	2603	2588	1608	1952	1573	1789	1395	1670

	196	1969-70	1970—71	-71	1971—72	-72
State/Union Territory	lay ke	Expr.	Out- lay	Expr	Out-	Expr.
(1)	(14)	(15)	(16)	(17)	(18)	(61)
Total-States	1098	1358	1316	1611	1815	1970
Total- Union Territorles	221	214	256	352	340	505
Grand Total	1319	1572	1572	1963	2155	2475

TABLE NO. 15(8)
PLAN OUTLAY AND EXPENDITURE ON RAILWAY DEVELOPMENT PROGRAMMES

(Rs in Crores)

			į	•	Outlay		Ľ	xpenditum	1
3			•	Plan Progra- nimes	Depre- ciation	Total	Plan Progra- mmes	Depre- ciation	Total
	(1)			(2)	(3)	(1)	(5)	, (G)	(7)
Flest Plan		•		267	163	432	217	206,	423
Second Plan	,			900	225	1125	723	320	1013
Third Plan				890	330	1240	1326	360	1606
AnnualPlan		66-	S9)	592	310	902	509	25 }	763
Fourth Plan				870	5.0	1420	,		
1969-70				160	95	225	119	74	193
1970-71,				180	100	280	161	91	, 252
1971-72				180	100	280	219	91	310

EABLE NO. 10(9) S. ONINIAND WATER TRA

MAN EXPENDITURES ON INLAND WATER TRANSPORT

	E	Plan		,	Appl	Annual Plans	Sü	· .		<u>.</u> .	IV Plan	inele		
- 1	99-1661	99	1966-67	191	196	. 89-2961		- 69-8961	1969-		1970- 71	1971- 72	1972-	1973
Schemes	Pro-	व व	Pop in	형	Pro- vi-	Act-	Pro- vision	Act-	Pro-	da de	Act-	Act- ual	Anti-	Out.
(1)	(2) (3)	18	(£)	3	9	3	(3)	6	(10)	Ē	(12)	(13)	14)	(13)
A. Central Plan Scheme	433	127	165	5.4	192	299	66	105	200	53	63	121	136	100
B. Central	322	126	33	28	ž	28	31	33	400	30	12	67	141	100
C. State Plan Schemes	88	56	4	23	13	25	23	31	284	68	119	239	100	101
Andhra Pradesh , Assam	l is.	-	122	٥١	1-	10	1	10	. 22. 22.4	co	121	121	121	1524
Goa, Daman & Diu	1 18		, I.c.	1 1	ا ا	œ٣		Ö,v		13	10	14	23	. 251
TamilNadu West Bengal Mizoram	131		,	211	, ! ! !	≈		211	121	8 11	.g	181	252	140

TAUR No. [6[10] NS. AND EXPENDITURES ON PORT DEVELOPMENT (73. in Ino Nyla

		•	평.	Zuz.	2.6	.,	ş.		## · ·			
			1935	45.	- 136 - 136 - 136 - 136		3 196	7.1961	g':	1969-70:1970-71	970-71	972-73
Name of Port			36		99' (. 67		. 69	•			Fi.
			Act-	V T	to F	-1 7 E		Act Act Pro	Provi	Actual	Actual Actual	V F
			Ä	EX.	Ä	Ä		Ex		diture	diture	Ex
• •			ditur	e dia	re dita	re dim	re diture	re dit				ditur.
(1)		ł	8	(3)	(£)	ତ	(9)	3	(8)	(6);	(10)	an
A. Major Ports									•		1. 15:11.	23 C.
Cilcittà			3.49	15.73	3-49 15-73 26-67		10.41	8-25 10-41 10-80		_	1.58*+11.28	14.29
Bombay .		٦.	10.92	5.22	12.94				4.69	3.49	2:30	2.19
Madras		•	1.33	36-0	9-16					6.35	. 6.38	2.25
Cochin .		•	0.33	3.00	88.1				٠	1.25	2.22	1.19
Visakliapatnam .		•	1-13	4.32	4-32 9-07					99.9	14.91	17.44
Kandla		٠	8.8	8.24	3.71					0.44	.76:0	19-1
Mormugao			. :	:	1.75	0.0₹	0.37	0.54	0.91	1.46	6.27	6.75
Paradip	į	٠	•	:	19.63					1.26	4.22	3,16
. Mangalore		٠	?	:	3.02					4.23	3.33	3.32
Tuticorin		٠	:	Ē	5.07	1.93	1.00	1.64		4.00	06-1	2

6,00

0.05 0.05 0.06 0.06 0.07	3.21
0.91 0.13 0.13 0.13 0.06 0.06	3.10
0.39 0.39 0.04 0.04	3.49
0.13 0.13 0.15 0.04 0.04	2.53
0.038	11.11
0.45	2.52
0.27 0.27 0.57 0.18 0.03	2.63
1-02 1-36 0-92 0-14 0-07	1.69 4.69 0.67 9.63 2.52
0.04 0.06 0.48 0.06	93.
0.00	63.1
MINOR PORTS (By maritime Sacca)5 (By 1.07 1-23 0:92 1-48 2:06 0:91 2:10 0.04 0.04 0.04 0.02 0.04 0.057 0.050 1.02 0.42 0.057 0.057 0.050 1.02 0.42 0.057 0.057 0.050 1.02 0.042 0.057 0.057 0.050 1.02 0.042 0.057 0.057 0.057 0.050 0.057 0.050 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057	

Includes the expenditure for Haldia Dock Project Includes the expenditure for V. O. H. P. *Revised.

. 1.62 4.68 8.67 2.63 2.52 1.77

TOTAL

Vors ; In the draft Fifth Plan a provision of Rs. 308 crores had been made for the developament of Major Ports of which the port Trusts are to contribute Rs. 100 erores from the own , sources. For the development of Minor Ports the Plan provided Rs. 45 crores which lac-Macluding Expenditure incurred by the Central Govt.

luded Rs. 22 crores in the central sector. Source:-Port Transport Statistics-1972-73

TABLE NO. 16(11)
PLAN TARGETS AND ACHIEVEMENTS FOR GOASTAL MERCHANT
FLEET (1951 to 1979)

176 1 3 3 18 18 18 18 18 18 18 18 18 18 18 18 18							
Per	od				Targets	Achieve	mints
					(in Lakhs)	No. of Ships	GAT (In Lakhi)
(B)					(2)	(3)	160
Position as On 1-4-1951		•				71	2.06
Piest Plan (1951-56) .	٠	•		٠	3.15	90	2.40
Second Plan (1956-61)	٠				4-36	97	5-14
Third Man (1961-66)	•	•	•	•	13.25	99	5-23
During the Inter Plan Period (1966-6	9)				***	58	2.731
Fourth Plan (1969-1974)	•	•			40.000	60	2.37
Finh Plan (1974—79)			•	٠	95,60	62@	1.783

^{*}Includes overseas Tonnaire and Tonnaire on order,

@nAs on 10-6-74 we had 2.76 likh GRT of containment and 32,66 likh
GRT of overseas Tonnaire.

TABLE NO 16(12)
PLAN TARGETS AND ACRIEVEMENTS FOR OVERSEAS MERCHANT
FLEET (1951 to 1979)

Period.	Targetsin	Achievements			
	GRT (In - Lakhs)	No. of Ships	GRT (In Lakha)		
(i)	(2)	(3)	(4)		
Position as On 1-4-1951		23	1.67		
First Plan (1951-56)	2.85	36	2.40		
Second Plan (1956-61) .	4.66	80	5,65		
Third Plan (1961-66)	. 13.25*	122	12.18%		
During the Inter Plan Period (1966-69) .		173	18,50		
Pourth Plan 1969_74	40.00*	214	28,34		
ifth Plan (1974—79)	96,00*	227@	32.66@		

^{*}Includes Coastal tonnage and tonnage on order.
%There were 99 Coastal ships represented 3 78 taking of GRT on that date
@As on 30.6-74 we, had 32,66 taking of GRT of averseas Tonnage.

Taking of GRT of coastal Tonnage.

TABLE NO. 16(13)
PROGRESS OF DIFFERENT MODES OF TRANSPORTATION
(1965-66 and 1968-69 to 1971-72)

	1965- 1966	1968- 1969	1969- 1970	1970 1971- 1971 1972
(1)	(3)	(4)	(5)	(6) (7)
Rail Transport '000'Kms.	58.4	59 K	60.1	59.8 60.1
(a) Tonnes Origina Millions	203	204	209	197 1987
(c) Tonne Kilometres '000' mil-	117	125	128	127 139
(d) Passengers. Ori- Millions ginating	2082	2213	2357	2431 2536
(a) Passengers Kilo- '000' Mil- inetres lion	96	107	114	118 125
2. Road Transport Surfaced Road . 000'Kms.	287	393£	400£	421 472
Commercial vehicles on Road	•			121 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(a) Trucks . '000'Nos.	259	304	322*	343** 364**
(b) Buses . '000'No.	73	87	92*	. 94** 100

fincludes roads maintained by Department other than P.W.D. and Local Bodies.

^{*}Revised

Provisional.

TABLE: No. 16(13)—Contd.

(2)		(4)	(5)	(6)	(7)
Sea Transport	,				
(a) Taonage of Coar- 1'000'GRT tal Flebt	323*	275**	307@	218‡‡	198£
(b) Tonnage of Over-	1492	2001	2 i 47	2282	2416
(c) Traffic Handled Million by Major Ports. Tonnes	50	58	54	55	59
(d) Traffic handled by Minor Ports.	8	, 8	8	7	. ,. 7
Givil Aviation% (a) Total Carrying Million Capacity in Tonne Kilometrers	479	670	702	709	797
(b) Total tonne Kilometres, flown	257	353	408	439. [*] . [']	450
(c) Total Passengers "Kms. flown	•••	2850	3235	3555	3609

As on 31st March.

(As on 28th Feb.

(As on 30th June.

^{##}As on 31st Dec. %For the calender

TABLE No. 16(14)

EMPLOYMENT IN PUBLIC SECTOR TRANSPORT UNDERTAKINGS (1955-56 to 1971-72)

(In thousand Nos.)

Year			Railways*	Road Un- dertakings	Air Trans- port Under- takings	**Other Total* modes
(1)			(2)	(3)	(4)	(5)
1965-66 .	•	•	1352	232	20	489
196667 .	•	•	1365	243	20	490 2118
1967-68 .	•	•	1363	256	21	492 (2152)
1968-69 .	•	•	1354	273	22	505 : 2154
196970 .	•	•	1359	301	22	493 2180
1970-71 .			1374	277	23	473@ 2147
1971—72 .			1391	294	25	546@ 2256

^{*}Revised.

^{**}Data in for the calender years, 1965 to 1971.

[@]Estimated.

^{&#}x27; Sources :- (i) Railway Board Report-1971-72.

⁽ii) Review of Public Sector Road Transport Industry-1971-72

⁽iii) Indian Air Transport Statistics-1971.

⁽iv) Monthly Abstract of Statistics. March, 1974 (CSO).

TABLE No. 16(15)

CONTRIBUTION OF TRANSPORT UNDERTAKINGS TO NATIONAL INCOME

	ું(Ra, i	n Milli	on at c	n rent 1	prices)	- 1		1		
	12,	Public Sector Transport								
Year (1)	Rail Trans port	- Trans	Air Transport	s- Wate	d Sea er tran i- port	5.	Secto	c Total r Trans is- port Sector		
· 35 3/(0) .	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(ā)		
00=61/1/4	2520	400	100		333	3433	1627	5060		
65-66	1000	783	307		362	5652	2518	8170		
36-67	4260	863	117		700	6240	2780	₹9020		
6768	4210	1052	543	8	874	6687		9870		
60-60	4700	1280	592	13	686	7471		11930		
69 476 37	1970	1500	680	13	1035	8198	4172	12370		
-				,	,					
		Indes	Nun	hers				,		
		Rase	1966-0	10010	o ' -	1	. 4	S. Carre		
the second	a and the same of the same		l'abi	ic Sect	or Tr.	uspor	L _,			
Yeat	TEST	Road	Alr I			Total	rivate	Total		
1 E C 2 E	Trans	Trans-	Trans.	water	Trant			Tratis-		
italienia Gigitari	port	tritt.		Team: port	bost		€ 'n 21	port		
(1)	(2)	' (3)	(4)	· (5)	(6)	(7)	; (8)	(9).		

100 100 100 100 100 100 100 100 151 196 171 169 165 155 161 169 166 226 222 210 102 171 178 167 263 262 100 262 105 196 195 - 1066--67 1967—69 1966—69 187 320 329 163 266 210 241 225 487 375 376 163 311 200 256 244 1979-79

1960-61 119654466

483

SECTION 17: INTERNATIONAL COMPARISONS

*TABLE No. 17(1)

INDIA'S PLACE IN THE WORLD TONNAGE* OF MERCHANT FLEET (As on 1-7-1972)

GRT

%Share

Maritime Country

and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t							(1n '000)	7000010
	1						2	3
I. Liberta		-	•	-			44,444	16,56
2 Japan	,						31,929	13.02
3. United Ringdom							28,625	10.67
A. Norway	•						23,507	8,76
USSR .	•						16,734	ij.24
5. Grerce							15,329	5.71
7. Unlied States .							15,024	5,60
" 8 Germany Were .							8,516	3.17
9. Italy			٠				0,107	3.05
10. Pansina	•	44		, .		,	7,794	2.90
Il Prance	. ! ~	ء. وغيامه	, •, ,			-	7,420	2.76
12: Sweden	29.3	ر از نیم را	, 453		, t. _{ja}	÷.	5,632	2.10
11. Netherlands	195		ويونيو"! ويُور "ور			ور در المار المار عن المار	1,972	1.15
14. Spain			9. (A.300	न्युद्धे हर्षः ।
Talanta de Maria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria		533.3	·,""	20 12	41 75	.,':		Sec.

TABLE No. 17(1) __ Gontd

	1	. ,					`	-2
18. Cyprus	•	•	•	٠,	,		•	2,015 0.75
19. Poland			-			•	•	2,013 0.75
20. Brazil.	•			. `			•	1,885 0.70
21 Finland	•	•						1,630 0,61
22. Yugoslavia					•.			1,588 0.59
23. China (Taiwan)					•			1,495 0.56
24. Argentina								1,401 0.52.
25. Germany East								1,198 0.45
26. Belgium	••							1,192 0.45
27. Australia								1,184 -0.44
28. China (people's	Repu	ıblic)						1,181 0.44
29 Korea (South)								1,057
30. Portugal								1,027
31. Others					•,			15,011 5.60
				All	Count	ries		268,40 100.00
atiga and								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

The figures are inclusive of coastal Merchant Shipping Tonnage.

TABLE No. 17(2)

ROAD LENGTH BY SURFACES IN DIFFERENT COUNTRIES (1972)

(In Kms.)

Country	Paved	Gravel or crushed stone or stabilised soil surface	Earth roads graded or drained	Un- improyed roads	Total
CONTRACTOR STATE	2	3	4	5	6
Africa	·				
Algoria :	42,300		14,200	19,500	76,000
Matacco	. 18,030		5,221	28,539	51,790
United Arab Re-	9,524	450	10,302	27,000	47,276
Union of South	51,049	75,400	80,200	124,000	930,649
red and a second		. · · ·		•	•
Burmin	6,767	7,686	9,347	1,201	25,001
Ccylon*	19,530	18.768		3,949	42,247
india *	75,460		675,944	٠ ا	11,51,404
1200Desia	19,760	36,182	25,436	8,000	69,378
Tan .	12,060	22,920	8,462	-	43,442
inget in the second	6,490		4,645 .	,6569	27,091
Japan Takinan	87,737	• • •	836,371	,	10,24,108
Pallipines	17,561	12,540	1,089), ""	31,190
Sandi Arabia	4,478	39,312	20,060	ست ۱۰۰	73,850
Thilland	8,700	مسى م	. 5,300		: 14,000
	2,293	5,288	•• 3	€,929	26,505
Seriot e Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of t	e ve	13.11.35	7 . n. m.	, , , , ,	7
Austria	11 001	بالأوالي الأ	, a 120,		34,602
neigiant.	21,291	6,141	7,170	ا ال سبب رسال ال	92,130
Bennark	75,150	راسع پرايي	17,000	2.225	63,925
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s) (ग ्रा		61,700	2,223	Company of the second

1. A. M. A. A. A. 17	1771				- A *	1117 4 15
	~~~	2	3	4 .	5	6
Europe-(Contd.)						
France		651,000	138,000			789,000
Germany West		350,000	35,000	55,000	<u> </u>	445,000
Italy		270,000	10,000	3,500		283,500
Netherlands			76,000		25,300	
Norway .		13,027	60,085			,73,112
Portugal .		18,585	793	- 369		19,747
Spain .		100,911	30,375			139,316
Sweden .		27,669	69,015			97,484
Switzerland .		60,600				60,600
Great Britain		336,638				\$36,038
AmsHea						
Argentina .		33,950	63,505	116,561	4,208	220,232
Canada .		168,452	467,944	168,569	26,718	
Mexico .		58,021	38,999	10,596	17,990	125,605
U.S.A	• :	2,727,710	2,072,939	633,262	615,326	6,049,215
Venezuela .	•	19,170	16,422	8,687	16,037	60,316
Oceania			•		• ;	
Amtralia .		188,715	213,604		411,689	884,268
Newzeland* .		41,818				93,837
4 3					i	

^{*}Latest available statistics.

^{**}Revised figures:— Reduction in road lengths is due to identification and exclusion of C.D. and N.E.S. roads transferred to other Govt. Depth for maintenance.

Sparce: International Road Federation - Highway Expenditures, Rust and Motor Vehicle Statistics for 1972.

## TABLE No. 17(3)ATIVE TO NATIONAL INCOME 'SE (1972).

ROAD LENGTH RELATIVE TO AREA DIFFERENT COUNTRIES

C. Alexander DIF

(In million US dollors)

	Road	lengti hway	National Income during	Percentage of Highway
Country	100 sq.	kms. oin	1972	Expendi- ture to national
	Surfaced	All		income
		Roads	3	4
	2	3		
Africa : Silve			18,337	2.58
Algeria	1.78	3-19	277.0	144
Morocci	4.05	11.64	113.9 "	•••
U.A.R.	1.00	4.72	28.6	1.72
South Africa	10.36	27.08	550-02 1	43. 1.62
Asia : 1			4 1	() // ,
Burma	2.13	3.69	52•4	90.7
Ceylon	58.37	64.39	293.9	324.3
India	14.5	35-10+	86.8	210.2
Indonesia	3.75	5.99	46.5	74.2
Iran	3.12	2.64	114.5	142.2
Iraq	1.49	4.78	64.5	206 5 🛴
Japan	276.87	276.87	957-5	957-5
Pakistan		3.71	1.00	1.17963
Phillipines	17.93	24.62	137-8	189.2
Saudi Arabia	0.41	0.65	411.5	7. B., B.
Thailand	3.42	5.16	48.5	73 0
Europe 2	, · .	e by the end of		
in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of	32.72	41-27	366-3	462:0
Austria	302-2	302.2		945.1
Belgium		148-42		281 1 3

114 41 FCC

Oceania : ... Australia

Newzeland

. 1.			2	- <del>7</del> .	2	3	4	5
Europe-(Conta	(.)					<del></del>		****
France			651			•		3 (**)
Germany W	cst		35		144-23	144-23	1526-1	1526-1
Italy					157:28	794.6	632 4	721.6
Netherlands				•	92.95	94.12	515.2	521-6
Norway					186-07	248.02	578.8	759.9
Portugal					22.55	22.55	1860.4	1860.4
Spain .					21-04	21.44	225.6	229 9
Sweden					27.60	27.60	403-9	403.9
Switzerland	i				21.68	21.68	1200.0	1,200:0
Great Brit	١.				146-77	146-77	943.9	.943.9
Amèrica -11	gdo	m.	•		138-04	138-04	603.8	603-8
Argea:								ار اور اور اور اور اور اور اور اور اور ا
C. Vrgentina					3-58	7.93	415.8	920 • 7
Canada		٠.			6.38	8.34	2912-6	3806.3
Mexico		٠.	• 1	•	4.92	6.37	184.3	238 6
U.S.A.		•			51.27	64.6	2298.7	2896 6
Venezuela					3-86	6.61	324.5	, -549·B
7 . 7								<ul> <li>(4)(5)(3)</li> </ul>

*Revised figures:-Reduction to the road lengths is due to identification and exclusion of roads transferred to other Gove. Deptt. for maintenance

5.24

34-93

11.50

34.93

3121-6

3292.5

Source : (i) U. N. Statistical Year Book 1971 (For Area)

⁽ii) International Road Federation - Highway Expenditures Road and Motor Vehicle Statistics for 1972.

⁽iii) U. N. Monthly Bulletin of Statistics - October 1972. (For Population).

### TABLE No. 17(4)

## EXPENDITURE ON HIGH WAYS RELATIVE TO NATIONAL INCOME COUNTRY-WISE (1972).

(In million US dollers)

٠		C	ower,			*	Ĭ	itimated lighway ixpendia ure in 1972	National Income during 1972	Percentage of Highway Expendi- ture to national income
	`		1					2	3	4
Austria								f75·27	18,337	2.58
Augralia		•				·		826.88	,	
Belvium			•					725.08		•••
Canada					_			2046.46		***
Ceylou	•		•							••
Denmark				,				339.53	19,760	1.72
France			- 1					2822-59	174,631	1.62
Germany	We	S1.						4002.87	220,638	1.74
India		1	•					360.42	• • • • • • • • • • • • • • • • • • • •	
Iran								140 00	**	
Italy								6203.30		•••
Japan				•				6970-13	***	••
Mexico							-	375.60	***	•••
Netherla	ads							395.41	***	
Norway			4			4		488-99	***	
Pakistan						•				
Portugal				•	*	•		29.86	***	44.4
Phillipin	C.S			•	•			97-13	***	***
Phillipin Saudi A	aidm					٠,		209-63	***	***
Spain		4	•	•	•		٠.	255-67	747	***
Sweden	•.	•	•	•	•			621-10	***	·
Switzerk	ınd		•	•	•	•		816-30		
Thailand	١.	_ •	•	•	٠			97-79		1.44
United :	Kins	dom	•	•		•	*	2175-76		
United	~	4 .						21052.00	1,059,00	02 04

Source : (1) Monthly Bulletin of Statistics, United Nations, October, 1972.

⁽¹¹⁾ International Road Federation—Highway Expenditures, Road and Motor VehicleStatistics for 1972.

TABLE -10. 17(5)

## NUMBER OF MOTOR VEHICLES REGISTERED IN DIFFERENT FOREIGN COUNTRIES. (1963—1972)

					(In '000) -
Country		Year	Auto- mobiles	Trucks and Buses	Total
1	_	2	3	4	
Australia		1968	3,426	915	31 441
	•	1969	3553	930	4.483
		1970	389.	974	4,807
		1971	3,898	971	4.078
		1972	4,284	1,036	5,320
Canada		1968	5,772	1,505	7,277
**		1969	5,877	1,550	7,427
•		1970	6,160	1,578	7,737
*e-		1971	6,433	1,683	8,116
		1972	6,602	1,784	0,337
West Germany		*000			13,006
•	•	1968 1969	12,000	1,006	14,058
		1909	13,000	1,058	14,030
•		1971	14,400	1,208	15,608
		1972	15,300	1,300	16,600
£		1372	16,300	1,350	17,650
France		1968	10,565	1,840	12,405
		1969	11,210	1,830	13,040
15-		1970	11,850	1,850	13,710
• ,		1971	12,470	1,900	14,370
		1972	13,130	1.890	15,020

1	2	3	4	5
	•			
Japan	1968	4,473	7,188	11,611
	1969	5,514	7,822	13,336
	1970	7,271	8,565	15,836
	1971	9,105	9,084	18,189
	1972	10,915	9,554	20,469
U.S.A.	1968	82,821	17,137	99,958
h Cather Town Star Late	1969	86,560	18,142	104,702
	1970	86,861	18 235	105,097
	1971	92,082	19,928	112,010
	1972	96,949	21,669	118,618
U. K.	1968	10,151	1,520	11,671
ရုံး ရုံးကြို့ရ လုပ်နေ	1969	10,859	1,612	12,471
	1970	11,292	1,690	12,982
<i>ું માને</i> કે કુલ લોકો કુલિક કરો છે.	- 1971	12,160	1,710	13,870
All the second of the second	1972	12,508	1,751	14,259

Cles having a normal capacity of not more than ten persons and having a minimal capacity of not more than ten persons and having a minimal capacity of not more than ten persons and having a minimal capacity of not more than ten persons and having a minimal capacity of not more than ten persons and having a minimal capacity of not more than ten persons and having a minimal capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of not more than ten persons and the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capacity of the capac nimum of two axles and four whicels.

Trucks:-Include all goods-carrying vehicles having a minimum of wo axles and four wheels.

Butes: -Include all passengers carrying vehicles with a capacity of more

Source International Road Federation Highway Expenditure Road and Motor Vehicles Statistics.

NUMBER OF MOTOR VEHICLES IN USE IN CERTAIN FOREIGN COUNTRIES.
(As on 31st December, 1971) TABLE NO. 17(6)

ं (000, u1)

Country	Auto- mobiles	Trucks and Buses	Motor cycles, motos bicycles	Total vehicles	Length of all roads (kms)	Poputation Inc.	No. of Vehicles per 1000 km of persons road	10 Cm
-	2	8	*	អ	9	7	8	6
Eurofe	1 419	389	165	2,295	34,602		808	Ğ
1. Altifria .	2.130	235	435	2,300	91,960		280	30
Z, Deignum	12.470	1.900	5,800	20,170	764,739		393	32
Section (19)	15,300	1.300	200	16,180	415,000		284	<b>Q</b>
r. Cent Reinin	12,160	1.710	1.040	14,910	337,963	55.57	268	4.
G Teals	9.142	857	3,735	13,734	288,000		254	÷
7 Norway	7+7	156	170	1,073	72,261		274	=
8. Sweden	2,288	[2g	41	2,488	97,954		307	25
Angrica :	1,403	745	420	2,568	200,519	23.55	109	_ E E

TABLE No. 17 (8)-Coald.

1			2	3	*	r3	9	۳.	82	6
		1	0000	1	181	1,147	71.030	50 83	422	29
U.S.A.	٠.	• •	92,082	12,928	3,293	115,803	69	207-01	557	19
. 21			;	;	Š	*	6	13.67	61	ヴ
Ceylon .	٠	٠	87 9.4	ş <del>†</del>	20	100	1 287 288	517-90	. 57	-
Inling	,	•	9 10	3.17.	110	352	84,267	124-39	1	10
Indu .	٠,	• •	9,105	90'6	0,755	26,941	1,015,017	101 66	257	27
Paklstan	. •	•	153	, <u>r</u>	126	350	35,163	126 74	n	10
Thailend	•	•	247	167	118	832	26,635	35.34	<u>51</u>	31
ceans : Angeolla		•	3,898	972	136	5,006		12 73	393	ဗ
. New Zeafund	nd.	•	919	186	53	1,156	193,837		406	12

^{*}include p-ivice, Givernment and for hir epissy nger vehicleshaving a norm il capicity of no more than ten pictions and histogramming two rices and four wheels. @Ugures permional and as on 31st March, 1971

Soura . 1. Highway Expenditures Road and Motor Veh. statistics

Efnelude 131,000 misc.vehicles.

TABLE NO. 17(7)

## NUMBER OF MOTOR VEHICLES RELATIVE TO ROAD LENGTH

Management of the Co. Co.		Number	of Motor	Vehicles	per "
Country	Number of Motor Vehicles	Kilometre of surfaced road	Rilometre of road (All surfaces)	100 Sq. / kilometre of area	Lakh of population
1	2	3	4	-3	· / / 6
Africa: United Arab Rept	uhlic 157,373	25.8	3.3	15-7	4517
Aria : India* Burma Indonesia Indonesia Iapan Pakistan Philliplocs	2,032,36 71,161 973,18 25,941,00	8 4.9 1 16·1 0 <b>2</b> 6·3	26-3	62-0 10-5 160-1 7,284-3	258 730. 730.
Earope :	. 303,38.	11.0	8.0	106.5	
France . West Garmany Switzerland . United Klagdom	20,920,000 17,850,000 2,331,281 15,392,000	45.8 39.5	26.5 40.1 38.5 45.7	3,824-3 7,199-6 5,695-4 6,308-8	40,454 28,949 24,312 27,571-7
America :				•	
Ginada U.S.A. , :	8,493,955 122,421,41	9 13·3 9 25·5	10·2 20·2	35·4 1,307·5	53,100
Occordo : Australla Newscland	. 3,513,00 - 1,157,96	0 13.7 3 12.3	. 6-2 12-3	71-7 430-5	42,354.0

Same : (1) U.N. Sassinical Year Book-1971 (For Area).

⁽ii) International Road Federacion-Highway Experelitures: Real and Motor Vehicle Statistics or 1972.

⁽iii) U.N. Mouldy Balleria of Spainter-October 1972 (for Pow

TABLE No. 17(8)

## NUMBER OF MOTOR COACHES AND BUSES BY SEATING CAPACITY IN EUROPEAN COUNTRIES AND UNITED STATES OF AMERICA

				Motor Coa	chesand Bus	es Numbe	r
Catego	iry	0	Year	Upto 32 seats	Over 32 seats	Total	Seating capacity ('000)
1		``	2	3	4	5	6
Austria .		•	1969	1,607	5,00	6,614	21
(31 Dec )			1970	1.542	5,262	6,804	250
			1971	1,518	5,388.	6,906	26
Denmark .			1969	1,235	3,478	4,713	19
(31 Dec.)	•		1970	1,348	3,691	5,039	21
			1971	1,402	3,858	5,260	22
Finland .			1969	1.771	6,064	7,835	28
(31 Dec.)			1970	1,717	6,354	8,071	30
			1971	1,731	6,471	8,202	31
France (31 Dec.)		٠	1969	25,040 (a)	37,733 (b)	62, 3	1,86
			1970	29,365 (a)	37,827 (b)	67,192	1,94
			1971	32,648	40,840	73,488	2,09
West Germany			1969				•••
(1 July)			1970	0,639	38,376	47,015	2,00
			1971	0,027	11,002	49,829	2,14
reland .	•		1969	81	1,865*	1,946	
(30 Sep)			1970	120	1,892	2,012	•
			1971	162	1,917	2,079	•

Table No. 17.(8)-Centd.

Jane Spirit	•		2	3	· 4	5
ralý .	٠	•	1069	,*	***	( <b>6</b> )
(31.Dec.)	' -:		1970	:13,211	25,645	39,856
			1971	14,780	25,830	43,610 1,624
,						
Luxemburg			1959		•••	أمواكم والمراجع
(31 Dec.)			1970	157	430	587
100	٠,		1971	159	436	595
Naherlands			1969		•••	260
(1 Aug.)	-	-	1970			10,500
4			1971	,		10,500
Norway (3) Dec.)	٠	•	1969	1 326 (a)	5,978 (b)	7,304 263
1 152			1970	1,430 (a)	6,055 (b)	7 463
1,1			1971	1,441 (a)	6,265 (b)	7,706 3 305
Paland			1969	5,617	25,843	31,490 11140
(431 Die)	•	•	1970	5,853	27,327	33,176 4,274
Charter Progress			1971	5,851	30,922	36,773
Serden (31Des.)		•	1969	5,470 (e)	7,206 (d)	12,676
***			.1970		***	13,455 (3), (6)
anti-			1971	•••	***	13,518
agricant sad			1959	3,383	1,532	4.921
(30 Sep.)	-	•	1970	3.829	1,713	5,942 1.167
110		,	1971	8,945	1,805	5,750 155

TABLE No 17(8)-Corld

1		2	3	4	S	ti
Grat Britain (3rd Quarter)	*	1969	7,200 (b)	71,90p (e)	72,100	3,778
		1970	7,259 (c)	7,05B (c)	79,267	3,809
*		1971	7,735 (*)	70,394 (e)	78,129	3,771
Nonhern Ireland		1969	***			
(3rd)Quanéry		1970	42 (c)	1,592 (e)	1,634	41
		1971	52 (e)	1,510 (c)	1,592	77
Yugoslaviá .		1907	5,932	7,281	13,263	111
(31 D-c)		1970	8,706	8,163	14,869	461
\$		1971	7,398	9,006	16,404	509
u.s.a.		1969				,
(31 Dec )		1970		379,021		
		1971	**			

After date in the year to which the figures apply is shown in bracke under the name of the country concerned.

⁽a) Upto 29 seats.

⁽b) Over 29 scats.

⁽e) Excluding motor coaches

⁽d) Upto 30 seats.

⁽e) Including vehicles exempted from licensing duty.

TABLE NO. 17(9)

Number of Goods Velicles on Road in European counteles and United States of America

			:		No. of Goods Road Vehicles(b)	ls Road es(b)	· Total	Number ofgoods	Total load capacity of
υ	Country & Year (a)	e X	r(a)	•	Operated for hire or reward	Operated on own account	2	& Semi- Trailer	vehicles
		-			67	8	4	٠ ت	9
Autria (31 Dec.)	I Dec.)								
1967	٠	•	•	•	16,134	07,885	104,019	74,910	
1968		•	•	•	15,506	90,521	106,107	74,310	
1969	•	•	•	•	15,454		112,057	76,467	169
1970	•	•	•	•	16,423	104,625	121,040	70,411	
1971		•	•	•	16,064	111,204	128,068	80,061	
prus (31 Dec.)	1 Dec.)								•
1961	•	•	•	٠	:	<b>:</b>	12,795(c)	:	*
1968	•	•	•	٠	:	:	**	ŧ	
1969		•	•	٠	:	:	i	:	:
1970	· •	· ,•	,,	•	:	•	· 6,090(c)		
1971		7, <b>7</b> √ { - 3/3					0,783(e)		
				1					
					.,				

# Table No. 17(9) Confee.

	i s	100	230	, m	. 570	. ,	٠,		n e	50 60	413	ļ	ć	500	100	700	7.365
					٠,	1							1	ก็เ	ຊ້ "	ָר [ָ]	5 1
	25,537	27,555	30,810	34,727	30,512			11.607	13.63%	15.844	18,032		250 477	1117 469	479.003	200 600	300,160
	249,405	253,558	255,641	246,416.	214,476		\$2.50	52,622	97,107	100,039	111,372		2.360.64660	2,431,564	2,587,993	2,605,040	2,767,207
			-1	;	•		<b>'</b>	69,145	73,126	78,013	63,546		74,508(f) 2,186,138(f)		2,393,196	2,321,700	
			•	:	:		: <b>:</b>	23,477	23,981	22,826	27,626		174,508(f)	169,664	169,797	183,340	199,064
		`., <b>.</b> , '	٠.	. 44	٠.	.,	٠,	٠.	٠	•	•		•	•	٠	•	٠
				44	٠	•	٠,	٠	٠	•	•	•	•	•	٠	•	٠
	1,3	**		••	· .	•	٠,	••	٠	•	٠		٠.	•	. <b>*</b>	٠	•
31 Dec.				• .	•	1 Dec.	••		•	÷	,	Dec.)	•	•	· · ·	·	•
Jenmark (	1967	1360	1969	1970	1971	Jand (31	1961	1963	.1960 ⋅	1970	1261	nce (31	1967	1968	,6961	1970	1971

			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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W. Cermany (1 uly)	uly)				1 1	Sale dan	0.8k 0.83(m)
. 1961	,·	•	•	174,754	840,279	1,010,01	200
1968	.•	•	•	:	et.	:	;
6961	•	•	٠	:	: }	:: :	, 0E0 054/m)
1970	•	•	•	167,050	861,066	1,028,110	250,325(m)
ighi		•	•	178,145	899,856	1,00,870,1	(m) Codings
Staly (S1 Dec)						1	, 10 ° 10 ° 10 ° 10 ° 10 ° 10 ° 10 ° 10
1967	•	•	. •	175,456	082,316	1,057,782	61,983
1968	,•	•	••	:	፧	4	•
. 1969 .	· .•	٠	٠	:	፥	• • • • • • • • • • • • • • • • • • • •	
1970	•	•	•	:	:	1,219,030	22,010
1971		•.	•	፡	:	1,282,970	0.500
Luxumbburk (31 Dec)	Dec)					, ,	
1907	•	, •	. •	:	:	11,278	
1968			٠	:	:	:	
7 ta 600 [4	, , ,	,	•	•		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10000000000000000000000000000000000000
1970	, ; ;		``.			8,528	
1971	;	, "				0,671	5,885

				) ), () • • • • • • • • • • • • • • • • • • •	£4		iga Sala Paga		
Verberlands (	Aug		3.7 7.7				はななない		
1361	; •					1. おきつい	255,000	36,000	1,020
. 1968	•							39,662	1,125
1969:	7.	. ,	٠.	•	15,213	139,757	195,000		1,200
1970	٠.	•	٠.	٠,			310,000		1,550
1971	•	•		*	- ( <b>1</b> .:	<b>:</b>	325,000		1,350
Yorway (31 Dec.)	Sec.)								
1967	•	•			ŧ	;	132,926	21,261	
1968	•			•	;	:	132,047	35,922	354
1969 🐇	•	•			11,020	123,703	137,723	14,750	395
1970	•	•			11,756	128,533	140,311	37,562	
1971	•				14,159	140,946	155,105	+1,907	1
Joland (31 Dec.)	î								
. 1961	•				62,236	129,411	212,669	225,050	1.433
. 1963	٠				89,498	140,794	238,202	253,303	1.593
* 1960 · ·	•	•			85,284	162,999	240,203	284,872	1.792
1970	٠	•			91,639	131,365	263,004	118,490	1.335
1971	٠	•		•	91,619	185,389	277,008	135,197	1,456
									-

TABLE No. 17(9)-Contd.

	-			İ	61	ဇ	*	5	٥
Spain (31 Dec.)	3								
1967					;	•	528,787	13,575	:
1968			•	•	:	;	592,351	14,528	:
,1969			•	•	•	:	654,088	15,815	:
1970			•	•	•	:	710,223	17,666	:
1971	٠		•	٠	:	:	768,373	19,574	:
Sweden (31 Dec.)	Jee,)								
1967	•			•	32,483	105,246 -	137,729	፥	:
1968	•	•			35,051	103,711	138,762	65,301	:
1969	•				34,310	104,073	138,383	74,453	765
1970	•	•			33,916	106,475	140,391	84,529	968
1971	•	•	•		3 1,408(g)	104,092	138,500	88,087	936
Switzerland (30 Sept.)	30 Sep	Ĵ							
1967	•	•	•		:	:	199,771(h)	45,216	454
1968	•	•				į	98,944	;	419
1969	•	•	•	•	:	:	105,498	:	446
. 0761	•	•	•		:	;	111,110	51,590	478
1971	•	•	٠	•	:	:	115,240	54,720	200

まっていていていていているのでは、これはないでは、これには、これには、これには、これには、これには、これには、これには、これに	000 1,496,000 1,739,000 000 1,353,000 1,564,000 1,51,000 1,51,000(1)(j) 1,616,000(1)(j)	18 99,014 109,912 31,709 646	79,936 90,555	83,686 95,318	94,621 107,287 40,717	~		***	***	: : : : : : : : : : : : : : : : : : : :	18,48,421 15,492,430	
	213,	10.118	10,619	. 11,632	12,666	. 13,669						
		,										
		30 Sept.)					Dec.)					
	Great Britain (3rd Quarter 1967 1968 1969 1971	Yugoslavia (30 Sept.)	1968	1969	1970	1971	U.S.A. (31 Dec.)	1961	1968	1969	1970	

- (a) The date in the year to which the figures apply is shown in brackets under the name of the (b) Including tractors used for haulage of goods velicles on public roads. ... country concerned.
  - - (c) Excluding vehicles whose licence was not issued. (d) Exclude vehicles of unstated capacity. (c) Including tractors.
- (f) Including special vehicles, such as fire engines and ambulance.
- (8) In addition, there were 2652 tractors of semi-trailers, operated for hire or reward.
- (b) Incheding 102119 vehicles used for both goods and passengers (station wagons). (i) Excluding vehicles exempt from licensing duty.
- (i) In order to estimate the distribution of vehicles by load capacity, vehicles ecusus figures by unjaden weight were related to a sample of gross weight and payload, given by vehicle manufacturers,

## TABLE No. 17 (10)-Cont.

### 194,175 172,103 128,397(c) 124,683(d) 60,120(c) 101,384(f) 59,827  ###################################	Ē	3	, E ,	(E)	(S)	(9)	3	(g).	(6)
63 21,49,777 136,414(6) 127,608(4) 63,772(e) 110,224(f) 60,605 1 12,31,135 170,818 110,556(e)126,727(f) 63,342(e) 114,055(f) 73,000 1 19,21,135 389,146 117,480(e)13,02,232(d) 67,774(e) 12,01,91(f) 81,901 2 19,1335 211,331 125,778 90,387 79,356 16,625 92,155 1 43,134 1,134 1,135 11,119 40,340 104,953 20,533 100,252 1 43,134 1,136 151,352 87,020 101,051 37,717 125,500 1 13,534 10,538 22,622 13,357 1,538 7,16 15,956 2 13,357 1,1538 7,1539 10,538 20,538 20,938 10,910 11,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538 100,538	Parse :	181,4375	172,203	1 '	124,683(4)	j	101,584	(f) 59,827	24.91.391
0 17,34,576 170,316 119,556(5)126,757(4) 63,342(5) 114,659(f) 73,000 2  1 19,21,135 339,146 117,869(5)13,02,232(4) 67,774(5) 12,01,91(f) 81,901 2  7 27,135 211,531 125,776 90,387 79,326 16,625 92,155 17 45,114 01,144 01,901 04,933 20,933 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532 100,532	1963	21,49,777			127,000(4)	•	110,224(		26,56,598
19,21,155 389,146 117,489(e)13,02,232(d) 67,774(e) 12,01,91(f) 81,901 2	1970	17,81,378	170,818	140,556(c)	126,757(4)	63,342(e)	(1)950,811	•	26,70,040
\$\text{6} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10} \text{10}	1331	19,21,155	330,146	117,4ff9(c)	13,02,232(d	(67,774(e)	12,01,91	1) 81,901	28,49,108
Harriago   11,531   125,776   90,387   70,326   16,625   92,155   15,111   11,114   13,001   04,953   20,953   100,252   100,252   100,252   100,252   100,252   100,252   100,252   100,252   100,252   100,252   100,252   100,252   100,252   100,252   10,252   13,357   1,536   100,253   100,253   12,522   13,357   1,536   100,253   12,522   13,357   1,536   100,253   12,522   13,357   1,536   100,253   12,522   13,357   1,536   12,522   12,5454   1,527   1,105   100,253   12,522   12,4574   1,277   1,105   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205   1,205	W. Great	* 6							
451,114	1955	10,3335	211,531	125,778	50,387	79,326	16,623	92,155	10,19,337
	1965	34),141	:	131,144	100,00	64,953	20,953	100,252	1066.44
1 155,163 244,176 151,352 67,020 101,051 37,717 125,568 1  0	1970	611,643	134,098	611,111	68,347	92,238	20.101	112,190	1.40,66
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81,794 10,538 21,622 13,337 7 1,530 748 7.086 93,335 19,900 15,629 1-2,474 1,277 1,195.77 93,690 11,520 16,169 17,172 3613 2,127 15,22 94,226 12,332 7 16,536 19,448 14,637 2,378 71,619	1371	:	ş	:	፧	፧	ŧ		12,97,88
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92,630 11,523 16,169 17,172 3613 2,127 17,242 1637 17,273 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037 16,037	. 6963	30,335	:	19,903	• -	2,574	. 1.977	1-102	130 050
94,226 12,392 19,936 19,541 4,637 12,373 11,619	1970	., 92,690	11,520 -	10,169	•	3.613.	2016	1.404	2000000
	1371	92,226	12,392	15,036	- A.	4,637	2,373	1.619	154 774

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<b></b>				29 790	39,637	31,045	1,766	597,117	
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690	462,888		55,919	23,300	44.313	19,901	6,295	716,510	
970	311,371(g)	165,981(h)	55,230 56,015	52,588	45,413	55,559	7,033	901,406	
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1969	71,634	1	000	0 505	17.220	63	2,721	113,831	
1970	60,217	15,190	0.910	9,690	18,205	63	2,795	110,035	
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at Britain		4	00 417	171,268	105,450	152,011	6,370	6,370 1,431,212	
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1969	10,58,000	:	000,000	000 00	129,000	1 15,000	5,409	1,619,409	
1970	931,000	•	200,002	02000	128,000	150,000	5,465	16,23,465	
1971	939,000	•	239,000				.		
					(e) Cap	(e) Capacity of 6600-8999 kg.	-8999 kg		
<u>ت</u> ر	(a) Upto 1,000 kg.	0 kg.	00 kg.		(S) Cap	(f) Capacity of 9000 kg, and over	kg. and or	/cr	
93	(a) Capacity of 3,000—4599 kg.	13.000-45	99 kg.		(g) Cap	(g) Capacity of upto 999 kg.	399 kg.		
<u>د</u> د	(2) Capacity of 1600—6399 kg.	r 1600—63	9 kg.	•	Ē	Capacity of 1000-2333 kg.			
•	"Ixeluding vehicles exempted from licensing duty.	chicles exen	apted from	licensing of	luty. :s for Europ	.c,1971.			
S	ource. : Annu	o unomagre	Adellar 1						
				21	_				

TABLE No. 17(11)

## VOLUME OF DOMESTIC INTERCITY PASSENGERS TRAFFIC BY TYPE OF TRANSPORT (1950-70)

(In billion of passenger miles except p

			· · · · · · · · · · · · · · · · · · ·	
	Total Traffic	Private au	tomobiles	Airways :
Year	Volume	Volume	% of total	Volume % of total
🤟 (i)	(2)	(3)	(4)	(5) (6)
1950	. 508	436	86.20	10 1.9
1955	. 716	637	89.01	23 🕾 🦽 3:1
1957	748	670	89.61	28 3.7
1958	760	685	90.14	29 🔆 3.7
1959.	765	687	89.89	33 4.2
1960	. 784	706	90.10	34 . 4.1
1961	. 791	714	90.18	35 4.9
1962	. 81b	736	89.95	37 4.
1963	. 853	766	89.83	43 5,0
1964	. 896	802	89.53	49 5.
1965	. 920	818	88.86	58 6.
1966	. 971	856	88.19	69. 7.
1967	. 1021	890	87.18	87 8
· 1958.	. 1079	936	86,80	101 3 3.9.3
1969	. 1138	977	85.86	120 10.
1970 (Prel)	. 1185	1026	86,60	119 10.0

[•]Includes domestic commercial revenue service and private pleasure and business flying.

[£] Includes electric railways.

[@] Includes Great Lakes.

Source : Statistical Abstract of the United States-1972 page-1596.

Tagle No. 17(11)_Contd.

	Buses(exc	indes (ses)	Railro	rd £	Inland Ways	
	Volume	% of total	Volume	% of total	Volume	la% latos
, 连续, 现在为1773	7	8	9.	10	11	12
1950	. 26	5.20	32	6.39	1.2	0.23
1955	. 25	3.56	29	4.01	1.7	0.24
1957	. 21	2.87	26	3,51	1.9	0.26
1958	21	2.73	24	3.11	2.1	0.27
1959	20	2.66	22	2.93	2.0	0.26
1960	. 19	2.47	22	2.75	2.7	0.34
1961	. 20	2.56	21	2.59	2.3	0.30
1962	. 22	2,66	20	2.47	2.7	0.33
1963	23	2.64	19	2.19	2.8	0.32
1964	. 23	2.61	18	2.05	2.8	0.32
1965	. 24	2.58	18	1.91	3,1	0.34
1966	25	2.53	17	1.78	3.4	0.35
1967	25	2.44	15	1.50	3.4	0.33
1968	. 25	2.27	13	1.23	3.4	0.32
1969	25	2.19	12	1.08	4.0	0.33
1970 (Prel)	. 25	2.14	11	0.92	4.0	0.34

TABLE No. 17(12)

### VOLUME OF DOMESTIC INTERCITY FREIGHT TRAFFIC BY OF TRANSPORT (1940 to 1970)

(In billion of ton-miles)

Year			Total	Rallylle	201 . ·	lifeter relieles
rear			Traffic -	Vol.	20	Vol.
1			2	3	4	56
1940 .			651	412	63.24	62 6.3
1945 .			1672	735	66.64	173 15,8
1950.	•		1094	628 655	57.44 50.43	223 17.2
1955 .	•	•	1296 1354	645	47.62	254 18.7
1957. 1958.	•	•	1231	575	46.68	256 20.
1959 .	•	:	1303	599	46,01	279 24
1960 .			1330	595	44.78	285 21.
1951 .		•	1326	586 616	44.17 44.38	309 22
1962 .	•	•	1387 1469	614	43.82	336 22
1963 . · 1964 . ·	•	•	1556	679	43,65	356 22.
1965	:	:	1651	721	43.67	359 211 381 21,
1966.		•	1759	762	43,33	389 21
1967,	•	•	1776	742 757	41.79 41.16	396 21
1968. 1969.	•	•	1839 1895	774	10.84	104 .21
1970 (Pr	el)	•	1921	768	39.97	412, 211

⁽¹⁾ Includes electric railways, express and mail.

TABLE No.17(12) Conid.

	iii. iii	(T2)	''ÔH È	pe lines	Air	ways ⁶
XCM.	Vol.	0/0	Vol.	%.	Vol.	%
	.?.;°. <b>7</b> [€]	<u></u>	9	10 .	~ 1.1	12
1940	118	18.13	59	9,10	z	0.002
1945	143	13131	127	11.80	0.1	0.008
1950 ( 7 7 7 7 7 7	163	14.93	129	11.81	0.3	0.029
1955	217	16.68	203	15.66	0.5	0.037
1957	: 232	:1.7.12	223	16,45	0.6	0.042
1958	189	15.35	211	17.16	0,6	0.04
1959	. 197	15.09	227	17.43	0.7	0.05
1960	220	16,56	- 229 -	17.19	0.8	0.05
1961 7.3532	210	rc15,82	233,	17.59	0.9	0.06
1962	223	16.08	238	17.14	1.3	0.093
1963	234	15.94	253	17.26	1.3	0.08
1964	250	16,08	• 269•	17,27	1.5	0.096
1965		- 15.89	. 306.	18,56	1.9	0.11
1966	281		333	18,93	2,3	0,12
1967	281	15,85	361	20,33	2.6	0.14
1968	291		. 391	21:28	2.9	0.15
1969	303		411	21.69		0.16
1970 (Prel)	307		431	21:43		0.17

⁽¹⁾ Less than 50 million ton-miles. .

⁽²⁾ Includes Great Lake? (3) Domestio revenue service only.

Source :- Statistical Abstract by the United States, 1972.

TABLE No. 17(13)

## GOODS TRANSPORT BY ROAD IN CERTAIN EUROPEAN COUNTRIES

(In millions)

_	0				Ton kilom	etřel
Country		-	1970	1971	1970	1971
(1)			(2)	(3)	(4)	(5)
Austria (a) (b)	2		9.3	9.0	3314	3575
Czechoslovakia (c)	ď	•	703	775	10093	11074
Last Germany .			464	196	12233	12993
West Germany(d)			165	174	41900	44500
Finland (e)			370	390	13400	14200
France			1564	***	66,900	•••
Hungary			407	433	5820	6639
Netherlands .			338	346	12400	13100
Norway			181		3479	
Poland(f)(g) .	•		370	980	8670	18082

Nore .- Figures are estimates of varying degree of accuracy.

(a) Austrian Vehicles only.

(b) Long and medium distance transport only.

(c) Transport performed by enterprises falling under the jurisdiction of the Ministry of Transport on own account of socialized enterprises

(d) Longdistance transport only. This refers to operations by vehicles authorised to carry goods to or from points more than 50 km2 from the place where the vehicles normally stationed.

(e) Exclude traffic on private roads

(f) For 1970: Traffic and transport performed by Polish vehicles only. For 1971: Including performance by foreign vehicles.

TABLE; No. 17(13)-Contd.

,7			(1)			(2)	(3)	(4)	(5)
	Spain		•				,.,	51700	54900
	Sweden	•	5 ·		•	480	•••	17800	•/•
٦	Turkey	,	•	•		51	***	16459	***
ł	USSR		•			14623	15919	220834	241000
	United K	inge	lom (h)	•		1722	1737	83067	85029
¥	Yugoslav	ia.	•		•	698	834	21342	24130
	USA(i)	•	•			••	***	601500	616100

^{. (}g) Including transport on own account other than that of the Ministrics and socialized enterprises.

ć

⁽b) Great Britain.

⁽¹⁾ Intercity transport.

Table No. 17 (14)

TOTAL NUMBER OF ACCIDENTS INVOLVING INJURIES TO PERSONS AND CASUALITIES

Country		•	Year	Total No of		No injured and killed in road accidents/causalities				
		ınvolvin		accidents involving injuries to Persons	Injured	Kılled	Total			
	(1)		(2)	(3)	(4)	(5)	(6)			
		1051	,	5D 7F0	00.010	, ,	05 500			
Australia	•	. 1961		58,759	82,210	3,382	85,592			
		1969		62,597	87,864	3,508				
		1970		65,210	91,554	3,798	95,852			
		1971	4	8,873(a)	63,056(a)	3,590(a)	71,746			
Austria		. 1968	3	48,963	68,492	2,157	70,649			
		1969		50,189	70,206	2,071	72,277			
		1970	1	51,631	72,653	2,238	74,891			
		1971		52,641	74,741	2,468	77,209			
Cinida		1958	. 1.1	5,486	1,73,901	5,318	1,79,219			
_		1959	1.	28,434	1.80,829	5,424	1,86,254			
		1978		19,936	1,78,501	5,080	1,83,581			
		1971	•	***			•••			
Sr. Lanka	/Cml	> 1065	,	14,549	7,739	598	8,337			
OLI PHILES	(uc)	1969		17,038	8,903	621	9,524			
		1970		17,448	9,325	661	9,986			
		1971		16.254	8,416	688	9,104			

⁽a) Upto the end of September.

TABLE No 17 (14)-Cortd,

(1)	(2)	: (3)	(4)	(5)	(6)
Gzechoslovakia.	. 1968	36,300	45,751	2,353	48,164
	1969	38,028	48,235	2,501	50,739
¢	1970	33,163	41,469	2,199	43,668
	1971	33,999	42,501	2,240	44,741
France	1968	2,20,201	3,12,313	14,274(b	3,26,587
•	1969	2,20,618	3,11,273	14,664(b)	3,25,937
	1970	2,28,600	3,22,200	13,050(b)	3,37,250
	1971	2,12,200	3,45,800	16,200(ь)	3,62,000
Germany West	1968	3,39,704	4,68,718	16,636	4,85,354
	1969	3,38,921	1,72,387	16,646	4,89,033
	1970	3,76,520	5,30,231	19,123	5,49,354
	1971	3,63,664	5,17,198	18,685	5,35,883
Great Britain	1960	2,64,200	3,42,398	6,810	3,17,208
1	1969	2,61,778	3,45,811	7,383	3,53,194
	1970	2,67,157	3,55,847	7,501	3,63,353
	1971	2,59,025	3,44,390	7,696	3,52,086
Italy	1958	1,78,173	2,34,039	9,809(c)	2,43,848
	1969	1,75,780	2,30,809	9,891(c)	2,40,700
	1970	1,73,132	2,28,236	10,208(c)	2,38,444
	1971	1,83,257	2,44,408	10,103(c)	2,54,511
арац .	1968	6,35,056	8,28,071	14,246(d)	8,42,317
	1959	7,20,880	9,67,000	16,257(d) 9	,38,257
	1970	7,18,080	9,81,096	16,765(d)	9,97,861
	1971	7,00,290	9,49,689	16,278	,65,967

⁽b) Deaths occurring within five days of the accidents
(c) Deaths occurring within seven days of the accidents
(d) Deaths occurring within twenty four hours of the accidents

TABLE No. 17 (14)-Contd.

(1)		(2)	(3)	(4)	(5) (6)
Poland		1968	22,209	29,442	5,424(e) 32,856
		1969	24;037	31,917	3,418(e) 35,335
		1970	26,414	34,398	3,446(e) 37,844
. 5		1971	28,939	38,380	3,799(e) 42,179
Uls.A.		1968	13,46,800	20,00,000	55,200(f) 20,55,200
		1969	13,47,600	20,00,000	56,400(1) 20,56,400
		1970	13,46,800	20,00,000	54;800(f) ************************************
		1971	***	•••	And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t

⁽c) Deaths accurring within forty eight hours of the accidents.

Source : World Road Statistics, 1967-1971.

⁽f) Deaths occurring within one year of the accidents.

WORLD TANKER PLEET. AT THE END OF THE CECCLOSING 20.3 million D.W.T. Combined carriers (2,000 D.W. tonnes and over) By Flag and Ownceship TABLE NO. 17 (15)

Ť				2	,	NWO	OWNERSHIP	1		رقدوسال	Shark
E	ría <u>ş</u>		1	Coi.	Pvt.	Govt.	Other	Total 1971	Total 1970	1971 0ver	of Total
				Mullion		Tonnes	GS.	Death	Deadweight	0/61	
	Ξ			(2)	3	€	(3)	(9)	3	(8)	) E
Liberia				8.3	35.2		0.2	43.7	7 38	45.3	36
Norway		•		0 2	19.2	•				2 + 1.9	
C.K.		٠		17.9	7.4	0 2	0	_	6 22	3 4.3.3	3
Japan				3.1	15.9	•	:			13	2 , 33
. v. v.	•	•		7	7	1 7		6.6		7 +0.2	ימו
Fantma	•	•		3 4	2	:	•	5.8	8	1.0+	-
r rance.		•		4-8	7.8	0	:	7	7 5.5	3 +1.8	*
Creece.	•	•		ì	8 6		•	8.6	6 7	0+	E
Other Western Europe	ern Euro	be .	•	106	13 4	0	1	2.	2)	4.64 2	-
Other Western Hemisphere	tern Hem	usphere		2 7	0 3	0 3		60	3.4		
USSR, E, Europe & China	Europe &	k China	٠	{	1	6.3		9	3 6.2		
Other Eastern Hemisphere	ern Hem	isphere	٠	7 0	3.3	0 1	•	4	60	•	. 61
	TOTAL			56 1	112 6	8 8	0 3	177 8	3 158 2	+19 6	100
Flect as at end of 1970	end of I	970		50 0		99 2	8	3 0.2	2 158 2	2	
Metinerease 1971	sc 1971		٠	1.9		13.4	1		1 19.6	9	
Source	-Bruis	h Petrol	cum	Statist	cal Rev	sew of t	he World	Oil In	Soure ! - British Petroleum Statistical Review of the World Oil Industry-1971	971.	

TABLE No. 17 (16)

## WORLD ESTIMATED CRUDE OIL PRODUCTION (6)

,				•				(Millian 7	onner)
, ,	Ceu	ntry					1970	1971	1972
*	1	l			<u></u>	,	2	3	, 1874 E. S
North America (1	. \ .	C = 0.1.	,			٠, ،	60·37 i	: 605-4	620.5
	)	1 wate	11	•	•	•		530-4	332.0
U.S.A.	*	•	•	•	•	•	533.7		57.5
Capada	•	•	•	•	•	•	70.0	75-0	
Latin Arerica e	nd d	i merica	T Att	a of	waich	1	267.7	251-1	215.8
Venezuela							193-2	181.9	167.4
Mexico							21.9	21-9	22.6
Argentina	•	•		•	•	•	20-0	21 5	22.2
Midfle East of	tur#s	ich •					712.6	822-1	912.4
Tran	,		•	•	•	•	191-8	227-3	254.0
S. Arabia	•	•	•	•	•	•	175-6	223.5	285.3
Kuwait	•	•	•	•	•	•	137.4	146-8	152-0
Irzq .	•	•	• .	•	•	•	76.5	84-0	67-0
Aba Dhal	òi	•	•	•	·	•	33.5	41.0	50.0
Neutral Z	one		Ĭ	•	·		26-4	29-1	30.3
Qutar	Ξ,						164	20-2	23.5
Egypt	•	•	٠	•	•	•	16.9	14-7	11.0
Africa (Excl.	Tlay	In (tig	whic	2,			274-9	237+5	264*4
Libya.							139-9	132-2	105-0
Nigerla				÷	r :		33-3	75-3	7.69.2
Almeria							47.9	50.2	52/3

TABLE	No.	17	(16)	Contd
-------	-----	----	------	-------

			i				2	3	4
Western Europe o	f w	hich			1		19 0	18 3	19-1
WestGerma							7 5	7 4	7.1
Yugoslavia	•••,	•	•				2 9	3.0	3 1
Austria ,				`.		•	28	2.5	2.5
France .						•	23	1.9	1 5
Fareast of white	-1.						67 1	78 • 1	92.5
Indonesia		•	•	•	•	•	42.1	41.5	54.0
Australia	•	•	•	•	•	•	8.3	14.4	15.2
Brunei	•	•	•	•	•	•	6.9	6.5	9.2
India	•	•	•	•	•	•	68	7.2	75
Мајауна	•	•	•	•	•	•	0 9	3 3	4 4
Burma		:	:	:	•	:	0.8	0.8	0 9
USSR , Lastern E		. ca /	V	- F 201-	ah		390 • 2	420 ·B	442.3
USSR	urojĸ	G (	mina	<b>91</b> WH	icii	•	352-7	377.0	394.0
	•	٠	•	•	•	•	20.0	25.5	29.6
China (c)		•	٠	•	•	•	13.4	13.8	14.0
Rumania	•	•	•	•	•	•		2472.3	2599.0
			W	orld T	otal	•	2335 • 2	24/2.3	2333 0

⁽a) Excluding small scale production in Cuba, Thailand, Newzealand, Mongolia and Afganistan.

⁽b) Including natural gas liquids in Canada, also syntheticoils.

⁽c) Including oil from shale and coal.

Soules: Indian Petroleum and Chemicals Statistics, 1972.

Taria No. 17 (17) Production of cement in different Countries (1966-72) .

(Ya lable tonnes)	/
ч	
1	

Australia 37 Belgiam** 57 Canada 83 Cicchoslovakia 61 France 23	2 37-44 57-96 83-64 61-32	3 37·20 58·20	38.64	ů,		7	8
nkia	7-44 7-96 3-64 1-32	37·20 50·20	38+6-4		o (		'
rakia .	7.96 3.64 1.32	58.20		43.08	45-96	47.16	52.80
rakia	3.64		57.36	62.6.	67-32	69.36	70.92
lovakia	1-32	73-56	72.24	72.84	72.72	83.16	96.06
		64.56	64.92	67.32	7.4.0.4	79.56	80.40
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	36	2.47.68	255.72	276.96	290.04	289-44	302.88
•	***	71.76	75-48	74.04	79.92	84.72	88.56
	0.±.7	317.16	334-44	350.76	383.28	410.16	431.52
	.38	113.02	119-43	136-24	139.56	149.32	157-44
Italy	1.28	262.80	295-4-1	313.44	331.20	317,28	334.56
•	09.5	424.92	476.76	513.84	571.92	594-60	663:36
Mexico 49	0.03	54.84	61-20	69·00	73.80	77.28	35.80
	3-48	20-40	25.68	26.76	26.28	26.52	28.08
	₹ <del>†</del> •(	111.36	115-92	118.32	121.80	130.80	129.92
ia	58.00	63.36	10.20	75.12	81.24	02.50	
Spain. 120	120:72	134:76	151-92*	163.20	.165.36	169.92	194.40

			8	es	<b>→</b> ,	ra	ξī.	1	<b>ස</b>
Sweden .			37.56	39.00	39-72*	39.60	39-96	38.28	37.32
U. S S. R.	•	•	300 16	818 0 8	875.04	897.36	952.44	1002-96	1043.04
U.A R.	•	•	26 40	27.60	31-14	36-12	39.96	:	:
U.K.	•	٠	167 33	176-04	178-68	74.24	170.52	Neg.	180-18
U.S.A **	•	•	671.40	611.52	687-96*	\$92.569	677-52	682 56	703-32
Yugoslavia	•	•	32 88	33 12	37.68	39.60	44.0 }	\$9.50	57.48

Ravised,

** Excluding natural coment (U S A 1971 data-shipments)

Note -The annual production of cement indicated above have been built up from figures of martily average prolation published in respect of different countries

Some .- (1) U N Monthly Bulletin of Statistics-July 1972.

(2) Statistical Balletin of Gement Production and despatches for the year 1971.—Ministry of Industrial Development, Office of the Gement Controller, New Dellie.

TABLE No. 17(18)

# RELATIVE IMPORTANCE OF THE PRINCIPAL MODES FREIGHT TRANSPORT (4) IN EUROPE

(Percentages)

	-	3	Goods Carried	ricd			Ton-Kilometres	ometres	
Adams	rear	Rail (b)	Road	IWI	Pipe Lines	Rail (b)	Road	IWI	Pipe Lines
-	2	3	4	2	9	7	8	6	10
Austria , .	1963		9.01	7.2	21.9	57.1	18.7	7.3	16.9
	1971	50.0	9.6	6.5	33.2	49.7	1.7.8	5.9 20	26.0
Bulgaria	. 1963	16.4	91.6	2.0°(c)	i	63.3	25.2	0.9	ا ق
 .·	1970	6.11.	36.1	2.0*(	 ;;	59.9	34.1	0.9	②
	1971	11.3	96.7	2.0*(	ا ن	59.4	34.6	0.9	ા. છ
Gzechoslovakia	. 1963	28.8	1.07	0.6(c)	0.7	82.5	10.9	3.4(c)	3:5
	1970	24.7	73.4	0.4(c)	<del>-</del> -	7.4.8	13.5	3.5	6
• • •	1971	- 24.0	74.2	0.4(c)	1.4	74.1	14.1	2.9(	8
West Germany (Fed	1963	51.0	18.6	26.0	4.4	46.6	21.0	28.8	
ral Republic)	1970	42.5	19.2	20.0	10.3	40-3	23.3	27.1	6
***	1971	30.1	21.0	27.7	10.9	30.1	23.6	25.9	10
Taland	£961.**			:	:	· :	:		
	1970	1.9	93.9	Ţ	Ì	-31.9	.09	j	2 * . * 5 2.
1/10	1971	5.3	94.7	j	ĺ	. 28.8	71.2	ا	 J.

TABLE No. 17(18)-Crud.

-	2	3	*	īÚ	¢	7	ಣ	Ĝ	01
France	1963	18.9	74.9	5-7	2.5	55-7	31-3	3	
4	1970	12.9	27.7	5.5	6.0	39.87	36.97	7.8/1	17.7(2)
*	1971	:	;	:			11/2		2
			•	:	i		:		:
East Germany (De-	1963	42.1	26.0	ë.	1		13.5		` ]
mocratic Republics	1970	33.9	62.2	÷.	5.0		21.0		6
	1261	33 2	62.7	<del>ن</del>	er er		21.2	ر د د	4
Hungary	1963								**
	1970		76.6	: 4	::		: 1	: 1	:
	2 4		0.0	9	Ξ		20.3		cı
	1261	21 0	77-1(r)	0.5(r)	1.4(5)		22.7	4.8	÷
Netherlands	1963	7 8	53 5	36 7	3.0		93.0	60.0	7.
	1970	4-3	53.7	38.2	60		24.4	3	0
	1971	36	53 6	37.9	d.		25.5	20.0	
Norway	1062		11				,	,	?
	200	1.71	6.70	ļ	!		•	ı	Ì
	1970	112	85.8	ļ	1		i	Į	1
	1261		:	:	:		;	;	
Poland .	1963	9 69	33.8	9	1				
	1970	49.2	47.7	61	-	84.7			1 5
	1971	28 3	69 8	0 7	1 2	79.0	13.7		9 6
U.S.S.R.	1963	17.9	78.5	2 0		2 7 7			
•	1970	15.9	80-2	2 0		78.0	5 6	, I	* 5
	1971	15.5	80.8			2 5	) ·	a :	3
		,	3	,	0.1	0.//	7.1	5.1	9.7

							ĺ		•	
	1		3	4	ĸ	9	7	<b>c</b>	6	۱ ا
-		7	,						,	
					9.0	6.0	30.2	£-89		Ξ
Tr E. (d).		. 1963	12.1	÷-52		, -	0.00	75.9		4
		1970	10.3	33.1		7.7	7.77			9.8
		101	8.6	38.5	0.3	÷-	20.0	1.//		1
		7 / 61	,		•		1.03	16.9		Ĭ
•		1963	27.7	68.1	7.7	Ĭ	1	3		1
Yugosiavia			4.0	87.8	2.8	Ĭ	41-6(r)	40.1(1)		
		13/0	, (		ď	1	39.9	49.0		ĺ
		1071	÷	1.60	7	į				

(a) Because of differences in the methods of compilation of the basicstatistics of the various modes of inhand transport and of the fact that the original statistics of road transport are in many of inhand vanious modest mate of the cases, particularly what transport on own account is involved, based oncest mate made in the country concerned, the digues in thistable must be regarded merely as orders of imagnitude. Moreover in respect of some countries, the share of road transportin total conscarried may be allegally over stated because of double entry where the same consignments are carried successifically by different operators. Finally, ton. Km. have been given the same value for all modes.

In certain countries, coastal shipping plays an important part in the inland transport of the country. Such countries include Denmark, Italy, Norway and the United Kingdom.

(b) Main-line system of each country only.

(e) Transport by National Shipping Undertakings at home and abroad.

. Estimate by the Secretariat. (d) Great Britain.

". Not available. (r) Revised.

- Magnitude zero Source :--Annual Bulletin of Transport Statistics for Europe-197 . - Magnitude zero

WORLD MOTOR VEHICLE REGISTRATIONS (1950–1970)

	1 10 10			(In Mi	llions)
Name of the 1950 1955	1960	1965	1968	1969	1970
3	4	5	G	7	8
United States . 49.2 62.7	73.9	90.4	100-9	105-4	108-4
Other North and Central 3-2 4-9 South America 1-3 1-8	6-8 . 3-0	8·2 5·1	10·2 6·6	10·8 7·1	11-3
Europe 12.5 19.6	33.8	56-5	72.2	77.3	86.8
Africa 1.2 1.8	2-5	3.4	4.0	4-3	4.5
Asia	3.6	9.7	17.2	20.6	24.8
Occania 1.8 2.8	3.5	4.7	5.4	5-8	5•0
Total 70.4 95.9	126-9	178-0	21G·6	231.5	248-9

Source : Statistical Abstract of the United States, 1972.

TABLE NO. 17(20)."
ESTIMATED COST OF OPERATING AN AUTOMOBILE-1970.

(Conts per mile cost)

				<del></del>	
· · · · Item	10, year' aver-	Ist year (14,500 miles)	year.	(9,900	7th 10th year (9,500 (5,700 miles) miles)
ì	2,	3	, 4	5	6 7
Total	11.89	14-21	12-10	11.50	12:02 10:87
Costsexcluding taxes .	10.54	11.93	10-88	10-32	10.88 9.55
Depreciation	3-19	6.59	3.92	2:60	1.63 6.83
Repairsand maintenance	1.52	0-50	1.59	1-74	3-10 0153
Replacement tyres & tubes (2)	0.39	0.12	0.12	0.39	0.44 0.52
Accessories(3)	0.03	0.01	0.01	.0.01	0.05 ( 0.05
Gasoline (4)	1-73	1.73	1.73	1473	1.73 1.73
Oi1(4)	0.16	0.11	0-13	0.10	0.19 6.22
Insurance (5)	1.72	1.44	1.73	1.07	1.57 2.61
Garaging, parking tools etc. (6)	1-80	1-43	1.65	1.82	1.88 2.71
Taxesandlees(7)	1-35	2.28	1.22	1-18	1-14 1-26

⁽¹⁾ Includes Indication, withing and waxing; replacement of spark; plass, points and condenser wirer blades, Ian helt, radiator boses etc.; stance water pann and backs over had, universal joint replacement etc. and major repair such as a complete value job.

- (2) Covers 7 new regular tyres and 4 new mow tyres during life of ear.
- (3) Includes a set of vinyliloor mats and seat covers.
- (4) Garoline use set at 13.0 miles per gallon; oiluse associated with gasoline at
- rate of 1 quart of oil to 128 callon of gas.

  (5) Includes \$ 50,000 combined public liability property damage \$1000 modical and comprehensive for full 10 years; uninsured motorist coverage and \$100 deductible collosion insurance assumed for first 5 years.
- (6) Includes monthly charges of \$10 for garage rental or cost of owners garging facility, parking fee average of \$ 54 per year and toll average of \$ 6.50 per Jan Years of
  - (7) Includes Pederal caroline tax of 4 cents and Maryland casoline tax of 7 cents pergallen; Maroland registration fee of \$20 and tilling tax at 4% of retail price; and Federal excise taxes on motor vehicle: tytes and oil. Total taxes include property and oil taxes.
    - Source ;-Statistical Abstract of the United States of America, 1972.

TABLE No. 17(21)

## MOTOR VEHICLE ACCIDENTS NUMBER AND DEATHS BY TYPE OF ACCIDENT

(1950-1971)

		_			
Item		1950	1955	1960	1965
1		ž	3	4.	5
Motorvehicle accidents 1000	•	8300	9900	10400	13200
Accidents per 10,000 vehicles		1688	1577	1397	1439
Traffic deaths*		34763	38426	38137	49163
Non-collution accidents		10600	12100	11900	14900
Collusion accidents: with other motorvehicles		11650	14500	14800	20800
with pedestrains	•	9000	8200	7850	8900
with fixed objects	•	3490	3605	3610	4560
Traffie deathrales:				•	
per 100,000 population .	٠	23.0	23.4	21.2	25.4
per 10,000 motor vehicles	•	7.1	6.1	5.1	5.47
per 100 million vehicle miles	•	7.6	6.3	5.3	5.5

^{*}Totals may not quite equal sums of various types because the estimates are; senerally made only to nearest 10 deaths, and to receive types.

## TABLE No. 17(21) -(Contd.)

Item 1	1967	1968	1969	1970	1971
	6	. 7	8	9	10
Motor Vehical accidents 1000	13700	14600	15500	16000	16300
Accidents per 10,000 vehicles	1385	1416	1443	1435	1417
Traffic deaths*	52924	55200	56400	54800	54700
Non-collusion accidents	16700	17800	16000	14200	13200
Collusion accidents					
with other motor vehicles .	22000	22500	24000	23300	23300
with pedestrains	9400	9800	9800	10400	10600
with fixed objects	4820	5100	6600	6900	7100
Traffic deathrates :					
per100,000 population	26.7	27.6	27.9	26.9	2G.7
per 10,000 motor vehicles	5.4	5.4	5.3	4.9	4.8
per 100 million vehicle miles	. 5.5	5,4	5.3	4,9	4.7

TABLE NO. 17 (22)

# PRODUCTION OF MOTOR VEHICLES IN CERTAIN FOREIGN COUNTRIES

Country			Year	Year Private Cars	Buses & , Coaches	Goods Vehicles	Motor Cycles & Scooters	Mopeds
	_		cı	3	a.	5	9	7
ustralla .			1969	3,71,108(a) 3,91,946(a)	(p)	53,488 55,320	-:	: :
Austeia .	٠	•	1971 1969	1,110	168	1,104	 4,284(b)	1,39,200
			1970 1971	1,176 588	180 204	5,382	7,044(b) 7,680(b)	1,61,748
Canada .		•	1969	10,35,551 9, f0,389	3,17,348 2,53,685	<u>9</u> 9	: :	: :
Ceylon .		•	1969	 152 522	. 11	81 78	322 879	: 63
Czechoslovakıa	•	•	1971 1969 1970	117 1,32,109 1,42,856	2,527	23,646 24,462 24,462	669 1,33,337 1,07,754	60,554
	ĺ	1			2.45	inolo.		

# TABLE No. 17 (22) - Conld.

							ň.,	TABLE D	10.	TABLE NO. 1/ (22)-Come.	oma.		:
		13.	13.5			9	18.5	10 m		4.3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	123
, <del>M</del> ,	France				1: •	1969	21,6	1969, 21,68,462	11.15	3,124	2,87,486	3,375	11,02,498
<i>(</i> )	. ' '		٠.	•		1971	26,9	1971 26,93,989 3		· .	3,12,751		11,85,323
	West Germany*	any*			. •	1969. 1970	33,1 35,2	1969. 33,12,539(e) 1970-35,27,864(e)		12,713 14,692	2,68,412(f) 2,85,280(f)		1,29,499 1,42,598
	. •	-				1971	36,	1971 36,96,779(e)	•	12,245	. 2,59,483(f)	66,462	-1,79,027
. •	Grent Britain	ain			•	1969	17,	1969 17,17,100(g)	_	23,300	4,42,400(h) 4,34,298(h)	78,400(i) 82,568(i),	4,900
						1971		(2)076,11,71	8	26,518	4,29,688(h)		
•	Italy		•)		•	1969		14,77,366		2,838	1,15,747	1,96,300(a)	5,80,000
	7*					1971	17,	17,01,064		3,792	1,09,479	2,05,260(a)	6,05,000
•	Japan				•	1969	26,	26,11,499	•	41,842	20,38,673(i)	25,76,873	£.
	•					1971	37,	37,17,858		34,596	20,70,249(i)	34,00,502	9
	Poland				٠	1969		50,200		5,100	46,800(c)	11,500	85,500
`	-					1970	_	67,900		5,200	·16,200(e)	95,100	85,200
		;				1971		96,200		0066	49,600(c)	79,100	97,500

7	:	:	:	
9	:	i	:	
, ທ	10.81.519	20,18,859		
4	1	€.€	9	
2 3		USA 124,392	1970 03,00120	protecto 1/61

1 . *Including Berlin (West)

(a) Includes Station Wagons.

(b) Motor Cycles only.

(c) Includedin Buses and Goaches.

(d) Includedin Goods Vehieles.

(f) Includes special vehicles except road tractors. (c) Includes Estate Cars.

(h) Includes mative units for arriculated vehicles and road tractors. (g) Includestaxis and estate cars.

(i) Includes three-wheeled vehicles.

Source: -- World Road Statistics 1970-71. (j) Included in motor cycles and scooters.

FIRST REGISTRATION OF MOTOR VEHICLES IN CERTAIN FOREIGN COUNTRIES TABLE No. 17(23)

FIRST PERSON			1			•	
		Year	Year Private	Buses &	Goods Vehicles	Motor Cycles	Mopeds
Country			Cars	Concession		9	7
-		61	8	4	.c.	0	
-				1100	85.239	25,386	(e)
· · · · ·	•	1969	4,00,879	2,012	88.537	32,701	(e)
11311414		1970	4,13,051	<del>3</del> 3	87,267	48,786	<b>∂</b>
		101	4,17,223	3		,	100
			11/000	4	10,925	1,019	32,042
		6961	1,00,002	21	14.748	1,156	32,519
, astria		1970	1,27,392(b)	476	2 1	1 490	37,079
		1071	1.93,192(b)	463	15,214	0014	
		-				:	:
		1969	•	:	•	:	:
Canada .		1070	:	:	:	•	•
		2.63		:	:	:	:
		1/61	•		908 4	1,117	ı
		1969	2,381	5/5	957		1
Ceylon		1070		833	7,110	260	ļ
				722	798	1,030	
		161				•	:
,		1969	•	:	:		
Czechoslov1812	•	1070	•	:	:	:	•
		101	:	٠	•	:	
		1761					

TABLE NO. 17(23)-Contd.

1			61	6	4	ភេ	9	7
Trauce .	-	-	1969	1969 13,65,710 1970 12,96,628	5,692	2,17,380 2,01,886 2,26,779(k)	21,685 28,426 46,764	<u>ତ୍ତ୍</u> ତ
Germany (West)	٠	•	1969	14,00,000 16,41,048(b) 21,07,123(b) 21,51,557(b)	5,217 5,219 5,319	1,35,151(e) 1,53,013(e) 1,49,507(e)	5,447(f) 8,892(f) 16,231(f)	:::
Great Britzin	••	••	1969	9,89,40U(s) 10,99,852(g)	5,134 5,018 6,213	2,39,600 2,36,039 2,34,700	52,353(d) 60,319(d) 77,610(d)	44,646(h) 58,010(b) 63,511(h)
Italy .	•	•	1969	12,17,929 13,68,594 14,34,529	2,738 3,095 2,911	68,355 81,559 76,190	96,069(a) 94,503(1) 102,936(1)	2,13,615 2,13,463 2,18,721
Japin.			1969 3 1970 1971	20,36,662 23,79,129 24,04,511	26,707 27,827 21,824	17,81,723(a) 16,99,931(a) 15,99,011(a)	:	: ; :
Poland	•	-	. 1969 1970 1971	9 58,547 62,263 80,182	5,417 5,491 6,204	33,108 34,506 34,108	1,19,357 1,26,309 1,06,538	:::
ŧ								

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1 4 24 4 5 5 5 5 5 5 5 5 6 5 5 5 6 5 5 5 6 5 5 5 6 5 5 5 6 5 5 5 6 5 5 5 6 5 5 5 6 5 5 5 6 5 5 5 6 5 5 5 6 5 5	4 (i) 16,66,612 04 (j) 17,90,177 9 (j) 19,81,284		storoil,		jdn sı:	is 196
Comment of the second of the second	USA 16,524 1070 83,88,204 1971 97,29,109	•Inchuding West Berlin. (a) Inchuded in Col. 6. (b) Inchudes estate care.	(c) Mopels are not required to be registered. Number estimated at 200000 in 1970.	(d) includes three wheeled Vehicles, (e) Includes special vehicles, (f) Only those needing a read licence.	(8) includes estate cars and taxis. (h) Includes motor vehicles and scooters upt (i) Not required to be registered.	(j) Included in Col. 5. (k) Including buses & coaches. Source:—World Road Statistics 196

TABLE No. 17(24)

MOTOR FUEL CONSUMED IN CERTAIN FOREIGN COUNTRIES

, c	ountr	T <b>Y</b>			Year	Petrol consum- ptionin metric tonnes ('000)	Percentage of Col.(3) used in road vehicles	Diesel Percen- consumi tage of ption in Col.(5) metric used in tons ('000) vehicles
1					2	3	4	5
Australia			•		1969	6,830	100	2,696 - 100
					1970	7,293	100	2,949 . 100
					1971	7,607	100	3,157 100
Austria					1969	1435-8	***	984-0
					1970	1582.7	***	1,135.7
					1971	1797-9	•••	إِنْ اللَّهِ مِنْ اللَّهِ عَلَيْهِ اللَّهِ عَلَيْهِ اللَّهِ عَلَيْهِ اللَّهِ عَلَيْهِ عَلَيْهِ اللَّهِ عَلَيْهِ
Canada					1969	2,0748	100	(a) (a)
				•	1970	21,600	100	(a) ( (3)
					1971	•••	***	(a) 🔻 📆
Sri Lanka	(Ccy	lon)			1969	147-6		227-8
					1970	144.3	***	222-9
					1971	135-4	***	254-8
Denmark			4		1969	1,481	92	5,216 10
					1970	1,499	95	5,710 16
					1971	1,540	95	5,798 10
France					1969	11,349	96.8	4,273 94 0
					1970	12,281	97.0	4,703 94.9
r m			:		1971	19,323	97-8	5,133 , 95.7

TABLE No. 17(24) - Gorld.

3	4	. 5	6
Germany West 1969 14,084 (b)	98.5	8,744	66
1970 15,492 (b)	98.5	9,640	66
1971 15,205 (b)	98.5	9,711	66
Great Britain	97.5	4,868	100
1970 14,234	97.5	5,034	100
1971 14,963	97.5	5,186	100
1969 8,550	98	8,265	49
1970 9,200 gillion 1970 9,200	98	11,470	38
(학교 (학교 전 · 1971 - 9,800 - 1971 - 9,800 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1	98	13,060	31
Japan 1969 13,913	98-1	9,127	92.2
[15,1,55] [15,798 1970 15,798	97.5	10,311	92.1
1971 17,223	97.3	12,869	91-1
Indonesia 1969 1,4576	100	720-6	100
1,5631 1,5631	100	886-0	100
1971	· •••	· ···	***
U.S.A. 1969 2,47,849	95.3	1,20,599 (c)	15.9
1970 2,55,499 1971	96.5	1 27,860 (c)	•••

⁽a) Included under petrol. ...

⁽b) Including West Berlin.

⁽c) Total domestic demand of distillate fuel oil.

Source.—World Road Statistics 1967-1971;

TABLE No 17(25)

# EXAMPLE OF AVERAGE ANNUAL TAXATION OF THREE COMMON CATEGORIES OF VEHICLES IN CERTAIN FOREIGN COUNTRIES

								<b>→</b> `	
•	Count	гу			Private ear of 1000cc travelling 15,000 kms, and Consuming 12000 tires of petrol per anoum	Private cars 1500 cc travelling 15000 kms. and consuming 15000 litres of petrol per annum	Public carrier's goods vehicles of 16 ton laden weight operating at 75% capacity travelling 50,000kms peranaum and consuming 40 litres of diesel fuel 100 kms		
		1			2	3 -	. 4	_	
Austria					177	232	2,310		
Belgium		•	•	•	286	371	1,629		
Cyprus .			•	•	192	228	(a)		
Finland			•		221	296	1,928(ь)		
France	٠	•	•	•	222	308			
Germany V	Vest	•			180	237			
Great Brita	an	-			273	335(c)	3,006(€)	£	
Italy .					295	403	2,312		
Japan .				•	220	270	460		
Netherland	is .		-		197	250	805		
Norway			•		480	650			
Switzerlar	nd .		•	•	219	291	3,316		

⁽a) Vehicles of three types not allowed.

⁽b) Petroldriven vehicles.

⁽c) Excludes purchasetax, lubricating oil tax and a few minor imports, Source :-- World Road Statistics, 1967-1971.

#### ANNEXURES I—X

#### ANNEXURE 1

# FORMULA INDICATING ROAD MILEAGES IN EACH PROVINCE AND STATE TO GIVE A TOTAL OF 400,000 MILES BEING THE ESTIMATED REQUIREMENT FOR THE WHOLE OF INDIA FOR THE NEXT TWENTY YEARS

- It is desirable that the road requirements of all Provinces and States should be calculated as far as possible onthe same basis, making due allowance for geographical, agricultural and population conditions.
- 2. The object of road planuing as considered by the Nathur Conference of State Chief Engineers held in 1943 under the Chairmanship of Shri J Vesugar is to give India a well balanced road system suitable for the needs of the country for the next 20 years and so that practically all villages are brought reasonably close to a planned system of all-weather reads As the net work of ratiways and roads will obviously be closer near large towns and in densely populated acricultural areas than in undeveloped and sparcely populated regions, any formula evolved to indicate communication requirements should take these needs into account. Possible agricultural or industrial development during the nextiwenty years should also be taken into account.
- 3 Theformula for the communication system required in each area should therefore contains everal factors, giving the requirements (A) for agricultural areas, (B) for non-agricultural areas, (C) for large villages, towns and markets, and (D) for proposed agricultural and industrial development for the next twenty years. Toolkain the requirement for roads, the length of railway communication, (E) already in the area should be deducted (It is assumed there will be no great extension of the railway system after the war). With regard to Air transport, it was decided that just as the introduction of the motor car and motor lorry had not made obsolete the hullockeart which had increased in numbers and was still ingreasing and as thomaking of railways had simulated rather than decreased the making of roads, so air transport would not take the place of road and rail transport during the next twenty years but would eater for its own traffic just as eart, railway and motor velucle transport eater for their own traffic. The formula should therefore be in the form:

Road mileage requirements = A+B+C+D-E

4. The formuln is set out below in more detail.

#### THE NATIONAL AND PROVINCIAL HIGHWAYS AND MAJOR DISTRICT ROADS

Mileage of National and } 

Where A - Agricultural area of the Province or State concerned...

B...Non-agricultural area.

N...Number of towns and villages having a population of 2,001....5,000...

T= Number of towns and villages having a population over 5,000.

D=Anallowance for agricultural and industrial development during. the next 20 years.

R=Railway mileage in the area under consideration.

North-I. Provinces and States should add allowance for future development; about 1/5 percent has been allowed in all for possible future agricultural and industrial development during the next 20 years but as such development will be more in some areas and less in others, the basis on which the figure added in this column have been calculated, should be stated.

- 2. The ratio 0.2 A in the formula represents a grid or not work of reads 3. In the Agricultural area with 10 milesides and 0.05 B represents a grid with " 40 mile sides. This means that in the highly developed nericultural area no village will be more than 5 miles from a main read and the average distance will be less than two miles in most cases. Similarly in the pon-agricultural area. no village will be more than 20 miles from a main road and the average distance will be Gor 7 miles.
- 3. In addition to this net work towns and villages with a population over 2.000 have been allowed additional roads in various ratios; this appears featoughle as the network of roads gets closer towards large population and market centres.

Mileage of other District and Village  $= \frac{V}{3} + \frac{Q}{2} + R + 2S + D$ Roads.

Var Number of villages with population of 300 or less

O ... Number of villages with population of 501-1.000

Res Number of villages with population of 1,001-2,000

S= Number of villages with population of 2,001 ... 5,000

Des An allowance for agricultural and industrial development during the next 20 years.

- , Note —1. Small villages with a population of 500 of less were allowed an average of onlyone-fifth of a mile each because in Provinces where the density of villages is high, a greater number would be picked up by main and subsidiary loads. Larger factors have been taken for the bigger villages
  - 2 Provinces and States were requested to add allowance for future development and to show the basis on which the figures have been calculated.
  - 3. The total mileage allowed for provinces is 210,000 that, for States bing 40,000.
- 4. For the existing mileage of earth roads some provinces included in their official reports the mileages minitained by the P. W.D. and Local Bodies, while the others included estimated mileages of all village roads and trails whether maintained or not. The figures on earth roads are therefore not comparable as between Provinces

#### ANNEXURE II

#### THE NATIONAL BIGHWAYS ACT, 1956

Ar. Act to provide for the declaration of certain highways to be national highways and for matters connected therewith:

Be it enacted by Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Seventh year of the Republic Parliament in the Republic Parliament in the Republic Parliament in the Republic Parliament in the Republic Parliament in the Republic Parliament in

- x. Short title, extent and commencement. (1) This Act may be called the National Highways Act, 1956.
  - (2) It extends to the whole of India.
  - (3) It shall come into force on such date as the Central Government in by notification in the Official Gazette, appoint.
- 2. Declaration of certain highways to be national highways (1) Each of the highways specified in the Schedule except such parts thereof as are situated within any municipal area is hereby declared to be national highway.
- (2) The Central Government may, by notification in the Official Gazette, declare any other highway to be a national highway and on the publication of such notification such highway shall be deemed to be specified in the Schedule.
- (3) The Central Government may, by like notification, omit any highway from the Schedule and on the publication of such notification, the highway so omitted shall cease to be a national highway.
- 3. Definition.—In this Act, "muoicipal area" means any municipal area with a population of twenty thousand or more, the control or management of which is entrusted to a municipal committee, a town area committee; a town committee or any other authority.
- 4. National highways to vest in the Union.—All national highways shall vest in the Union, and for the purposes of this Act "highways" include—
  - (i) all laods appurtenant thereto, whether demarcated or not;

- (ii) all bridges, culverts, tunnels, causeways, carriageways and other structures constructed on or across such highways; and
- (iii) all fences, trees, posts and boundary, furlong and milestones of such highways or any land appurtenant to such highways.
- 5. Responsibility for development and maintenance of national highways... Itshall be the responsibility of the Central Government to develop and maintain in proper repair all national highways, but the Central Government may, by notification in the Official Gazette, direct that any function in relation to the development or maintenance of any national highway shall, subject to such conditions, if any, as may be specified in the notification, also be exercisable by the Government of the State within which the national highway is situated or by any officer or authority subordinate to the Central Government or to the State Government.
- 6. Power to lesue directions.—The Central Government may five directions to the Government of any State act to the carrying out in the State of any of the pravisions of this Alet or of any rule, nonfication or order made thereunder.
- 17. Felos for services or henefits rendered on national highways.—(1) The Central Government may, by notification in the Official Greete levy fees an under attended in relation to the use of ferries, temporary bridges and tunnels, on national highways
- (2) Such fees when so levied shall be collected in accordance with rules made under this Act.
- (3) Anyfee leviable immediately before the commencement of this Act for services or hencits rendered in relation to the use of ferries, temporary bridges and tuncison in history specified in the Schedule shall continue to be leviable under this Actuales and until it is altered in exercise of the power Conferred by sub-section (1).
- B. Agreements with State Governments or municipalities.—Not withstanding anything contained in this Act, the Central Government may enter this an agreement with the Government or any State or with any agreement of any agreement of any municipal area in relation to the development or manuferance of the whole or any part of a national lighway situated within the State or, as the case may be, intelation to the development or manuferance of any such part of a highway situated within a municipal area as referred tain and section (1) of section 2 and any such increament may provide for the sharing of expenditure by the respective partiest here to.
- 9. Power to make sules....(i) The Central Government may, by notisfication in the Official Cazette, make rules for carrying out the purposes of this Act.

- (2) In particular and without prejudice to the geografity of the foregoing power, such rules may provide for all or lany of the following matters, namely:
  - (a) the manner in which, and the conditions subject to which any function in relation to the development or maintenance of a oational highway or any part thereof may be exercised by the State Government or any official or authority subordinate to the Central Government or the State Government;
  - (b) the rates at which fees for services rendered in relation to the une of ferries, temporary bridges and tunnels on any national highway may be levied and the manner in which such fees shall be collected;
  - (c) the periodical inspection of national highways and the submission of juspection reports to the Central Government;
  - (d) the reports on works carried out on national highways; and
  - (e) anyother matter for which provision should be made under this Act.

ro. Laying of notifications, rules, etc. before Parliament. Al notifications or agreements is sued or entered into under this. Act shall be laid before both Houses of Parliament as soon as may be niter they are issued or entered into and all rules made undersection 9 shall be laid for not less than thirty days before both Houses of Parliament as soon as may be after they are made, and shall be subject to such modifications as Parliament may make during the serion in which they are so iaid or the session immediately following.

#### NATIONAL HIGHWAYS IN INDIA

s. No.	N.H. No.	Description
(1)	(2)	(3)
1	ì	The Highway connecting Dellit, Ambain, Juliuodut and Amritsar and proceeding to the border between India and Pakistan.
. 2	Į'A	The Highway coanceting Jullundur, Madhopur, Jammu Baoihal, Srinagar, Baramula and Uri.
_ 3	2	The Highway counceting Delhi, Mathura, Agra, Kanpur, Allahabad, Banaras, Mohania, Barhi and Calcutta.
	3	The Highway connecting Agra, Cwallor, Shivpuri, Indore, Dhulia, Nasik, Thana and Bombay.

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- 4. The Highway starting from its junction near Thana with the higway specified insertal No. 4 and connecting Poona Belgaum, Hubli, Bangalore, Ranipet and Madras.
- 4A. The Highway connecting Belgaum, Anmod, Fonda and Panaji.
- 5 The Highway starting from its innetion near Baharagora with the highway specified in Serial No. 3 and connecting Cuttack, Bhubineshwar, Visakhapatnam, Vijayawada and 12 Madras.
- 5A. The Highway starting from its junction near Haridaspur with N. H. No. 5 and terminating at the Paradip Port.
  - 6 The Highway starting from its junction near Dhula with the highway specified in serial No. 3 and connecting Narpur Raipur, Sambalpur, Baharagora and Calcutta. the highway specified in serial No. 3 and connecting Nagpur
  - The Highway starting from its junction near Banaras with the highway, specified in Serial No. 3 and connecting Mangawan, Rewa, Jabalpur, Lakhnadon, Nagpur, Hyder-abad, Kurnool, Bangalore, Krishnagiri, Salem, Dindigul, Madurai and Cape-Comorin.
- 7A The Highway connecting Palayam, Kottary, on N. H. 7 with the Tuticorin Port.
- The Highway connecting Delhi, Jaipur, Ajmer, Udaipur, Ahmedabad, Baroda and Bombay.
  - BA. The Highway connecting Ahmedabad, Limbdi, Morvi and Kandia.
- 14 and 8B The Highway starting from its junction near Bamanbhor with the highway exactined in Serial No. 10 and connecting Rajkot the highway specified in Serial No. 10 and connecting Rajkot and Porbandar.
  - 9 The Highway connecting Poons, Sholapur, Hyderabad and Yijayawada.
- 10 The Highway connecting Delhi and Fazilka and proceeding to the border between India and Pakistan.
- 17 ... The Highway connecting Agra, Baratpur, Jaipur and Bikaner.
- 18 13 The Highway connecting Jabalpur, Bhopal and Bisra. taldurg in Mysorc.

		(3)
(1)	(2).	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
20	15	The Highway connecting Pathankot, Amritar, Bhatinda, Gangaoagar, Bikaner, Jaisahner, Barmer to its junction, with the N. H. No. 8A near Samakhiali (uear Kandla).
21	17	The Highway connecting Panyel on N. H. No. 4 Mahad, Paoaji, Karwar, Mangalore, Camanore, Calicut (Kozikode) and Trichur.
22	- 17A	The Highway starting from its Jucetion near Cortalin with N. H. No. 1 and terminating at the Mormugao Port.
23	21	The Highway starting from its junction near Chandigath with the N. H. No. 22 and coonecting Rupar, Bilapur, Mandi, Kulu and Manali.
<b>24</b>	22	The Highway connecting Ambala, Kalka, Simla, Narkandai Rampur and Chini and proceeding to the border between India and Tibetnear Shipki-La.
25	23	The Highway connecting Chas, Rauchi, Rourkelay Talcher und terminating at N. H. 42.
. 26	: 24	The Highway connecting Delhi, Bareilly and Lucknow with
. 27	25	Shivpuri.
28	26	
29	27	The Highway coonceting Allahabad with the highway specified in serial No. 8 near Mangawan.
-30	2	The Highway starting from its junction near Barauni with the highwayspecified in Strial No. 26 and connection Mistarpur, Pipta, Gorakhpur and Lucknow.
. 31	2	8A The Highway starting from its junction near Pipra with highway specified in Serial No. 22 and connecting Signal and Raxaul and proceeding to the border between and Nepal.
3:	ź :	29 The Highway connecting Gorakhpur, Ghazipur and Basin
3 	3 :	

(1)	(2)	(3)
, 31	31	The Highway starting from its junction near Barh; with the highway specified in Sérial No. 3 and connecting Bakhtiyarpur Mokameh, Purnea, Dulkhola, Siligur; Siook and Cooch-Behar and proceeding to: is junction with the highway specified in serial No. 33 near Goalpara.
35	314	The Highway connecting Sixok and Gandak.
36	31B	The Highway connecting North Salmara to river Braham-putra.
37	32	The Highway connecting Jamsbedpur, Purulin, Dhanbad and Gobindpur.
38	33	The Highway starting from its junction near Barhi with the highway specified in serial No 3 and connecting Ranchi and Tatanagar and proceeding to its junction with the highway specified in Serial No. 7 near Baharagora
39	<b>`34</b>	The Highway starting from its junction near Dalkhola with the highway specified in Serial No. 26 and connecting Beh- rampore, Brasat and Calcutta.
40	35	The Highway connecting Barasat and Bangaon and proceeding to the border between India and Pakistan.
41	. 36	The Highway connecting Nowgong, Dabaka and Dimapur (Manipur Road).
42	37	The Highway starting from its junction near Goalpara with the highway specified in Serial No. 26 and connecting Gau- hati, Jorahat, Kamargaon, Makum and Saikhoa Ghat.
43	38	The Highway connecting Makum, Ledo and Lekhapani.
44	39	The Highway connecting Kamargaon, Imphal and Pale and proceeding to the borderbetween India and Burma.
15	40	The Highway connecting Jordan and Shillong and proceeding to the border between India and Falistan near Dauli.
46	<b>3</b> 41	The Highway between the innetion near Kolashat with the National Highway No. 6, and the point where it tou- ches Haldin Port.

(I)	(2)	(3)
47	42	The Highway starting from its Junction near Sambilpur with the highway specified in Serial No. 7 and proceeding via Angul to its junction with the highway specified in Serial No. 6 near Cuttak.
48	43	The Hichway connecting Raipur and Vizianaguram and proceeding to its junction with the Highway specified in Serial No. 6 near Vizianagaram.

- 49 44 The Highway connecting Shillong, Parsi, Badarpur and Agartala.
- 50 45 The Highway connecting Madras, Tiruchirapalli and Dindigal.
- 51 46 The Highway connecting Krishnagiri and Ranipet.
- 52 47 The Highway connecting Salem, Colmbatore, Tirchur, Ernakulam, Trivandrum and Cape Comorin.
  53 47A The Highway starting from its innerion near Trichur With
- 53 47A The Highway starting from its junction near Trichur with the highway specified in Serial No. 41 and connecting with the West Coast Road near Chajineri.
- 54 48 The Highway connecting Bangalore, Hassan and Mangalore
- 55 49 The Highway connecting Madhurai and Dhanushkodi.
- 56 50 The Highway connecting Nastk with the Highway specified in Serial No. 5 near Poona.

#### ANNEXURE III

# REPORT OF CHIEF ENGINEERS ON ROAD DEVELOPMENT FOR INDIA (1961-81)

# Summary of Recommendations

1. Formulated in 1943, the 'Nagpur Plan' aimed at increasing the then existing length of surfaced roads from 88,000 to 1,23,000 and of unsurfaced roads from 1,38,000 to 2,08,000 miles forserving the needs of the country during the following 20 years. These mileage targets have been generally achieved and by 1961, i.e., the end of the Second Five-Year Plan period, the lengths of the surfaced and manufaced roads are expected to be 1,44,000 and 2,35,000 miles respectively. The road system will, however, still remain deficient in respect of road surfaces and bridges.

Vast political, economic and social changes have taken place since the formulation of the Nagpur Plan. The achievement of the mileage target laid powint the Nagpur Plan will, therefore, not be adequate for our future requirements, and a fresh upprints loft the situation needs to be made to exter for the transport requirements of our expanding economy.

The matter was discussed at the Chief Engineers' meeting held at Shillong in May 1957 as a result of which a Road Development Plan (1961—B1) to meet the under the country for a period of twenty years from the commencement of the Third Five Year. Plan was framed. The broad principles governing the Road Divelopment Plan and the salient features are indicated briefly in the succeeding paragraphs.

2. Of late, there has been a tendency on the part of the people to gravitate towards urban areas. Lack of amenities in our villages is one of the major causes of this trend. Provision of a good road communication system can check this trend considerably.

Thefature road nuttern of the country should give ducattention not only to hiban, areas but also to rural areas. In rural areas it will not be possible to serve every small village individually. It would be desirable, to adopt a system of grouping villages, a minimum aggregate population of about 5,000 being taken as a workable unit.

Attention also needs to be given to the intensity and pattern of traffic. The number of motor vehicles in India has grown from 1,21,282 in 1943 to 4,18,06 in 1955 and is bound to increase tremendously in subsequent years. The demand for annual production of automobiles is estimated to increase from 78,000 in 1960-61 to about 3,70,000 in 1980-81.

- 3. The future road system in the country should, besides serving the highly developed and agricultural areas, also taken into account the needs of the semi-developed and underdeveloped areas, administrative headquarters, places of pilgrimage and tourist interest, health resort, universities and cultural institutions, important industrial and commercial centres, big railway junctions and ports. Strategic needs of the country should also receive due consideration.
- 4. The classification of roads would broadly be the same as laid down in the Nagpur plan siz., National Highways, State Highways, Major District Roads. Other District roads and Village Roads. The Plan takes Into consideration only such village roads as satisfy octain minimum standard. Further, to cater for an uninterrupted flow of heavy and fast moving through traffic, some lengths of National and State Highways in highly industrialised and thickly populated areas should be designed as "Expressways".
- ed countries of the world. Even with the achievement of the targets of road mileage laid down in the Nagur Plan the road length in India will be 20 milea per 100 square miles of area. It is therefore, imperative to increase the road mileage considerably, in order to meet the requirements of the growing economy of the country.

Keeping in view the limitation offunds it is proposed to increase by the end of 1980-91 the total road length from 1,31,000 to 6,57,000 miles, out of which about 40 percent of the mileage will be surfaced. This will give a spread over of 52 miles per 100 sq. miles of area. The objective is to bring every village...

- (i) in a developed and agricultural area within 4 miles of a metalled spad and 1.5 miles of any road;
- (ii) in a semi-developed area within 8 miles of a metalled road and 3 miles of any road; and
- (iii) in an undeveloped and unclustivable area within 12 miles of a metalled,

The implementation of the Plan would involve an expenditure of about Rs. 5,200 crores as indicated below:

Property stay and stay for a second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the second stay of the sec	-	,		Mile	age	Cost in Rs.
				expected on 1-1-1961	Targets proposed in the Plan	(improve- ment and new cons- truction)
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				(2)	(3)	(4)
National Highways	•	•	•	13,800	32,000	980
State Highways				35,000	70,000	1,580
Major District Roads				95,200	0,000	1,350
Other District Roads.				78,300	1,80,000	650
Village Roads (Classified)			•	1,56,700	2,25,000	630
	To	TAL .		3,79,000	6,57,000	5,200

^{6.} Highwaystandards and specifications depend upon a number of factors such as traffic requirements, safety considerations, climatic and topographic featurestets. The specifications to headopted should, however, besuch as would easily permit "State" construction so that (since funds are dimited) the lowest specifications for meeting the immediate needs can be adopted to start with and further improvements carried out subsequently in stages accordance with the development of traffic.

It would be desirable to have uniformity of standards in certain fundamental aspects such as gradients, curves, sight distance, land width, etc. for similar classes of roads throughout the country. In general IRC standard

should be adopted.

India is very low. In order however, to step up the pace of development in India is very low. In order however, to step up the pace of development of roads in the country, it is necessary to have a sustained and increasing tempo of expenditure in year to come. This planeavisages to increase the expenditure on road development from Rs. 80 crores during 1961-62 to Rs. 440 crores during 1980-81.

<sup>1960-81.

3.</sup> Road development and maintenance in Indiais at present being financed mainly from the general revenues to which most of the taxes on road transport levice by the Centre and the States are credited. The proceeds from these taxes in 1956-57 amounted to about Rs. 79 crores which practically covered the entire expenditure on development and maintenance of roads in that year. The local finid existeviced on land revenue provides an insignificant amount for rural roads.

Funds for road construction and maintenance should come not only from the direct benefits in ries, i.e. the motor vehicles but also from those to whomind irect benefits accrue from the development of roads. Some of the sources which may be tapped for raising additional resources for road developments are betterment levy; road cesson land revenue, taxon vehicles other than motor vehicles, and on dieseloilused for motor vehicles and tolls on projects of major magnitude like big hridges or specific high class roads which provide special facilities.

- 9. The overall expenditure on new construction and maintenance of roads during 1961-62 to 1980-81 is expected to be about Rs. 6-550 crores, and fifthe production of automobiles can eatch up with the trend of anti-cipiated demand. Therevenue from road transport during these years will total up to about Rs. 6,150 crores. The gap of Rs. 400 crores in 20 years can be made up various ways as indicated in part 8.
- 10. Forward Planning is an essential pre-requisite to an efficient and ego is nomical execution of roadworks. Full assurance of funds from the very beginning is, therefore, necessary.
- 11. Besides the Central and State Public Werks Departments, road works in India nreat present looked after by autonomous Local Bodies. Panchayas and Community Development Administrations. Financial limitations and difficulty in attracting suitable technical hands have, however, been a serious handicap with most of our local bodies as a result of which their supervision of road works has not been very fruitful. Provincialisation of the engineering staff of the Local Bodies should improve matters considerably.
- 12. For ensuring efficient execution and maintenance of roads, all classified roads except the classified village roads, should be under the State or Central Public Works Departments, or the Highway Departments as the case may be under the panchayats to whom the State Public Works Departments should give necessary technical advice:
- 13) National Highways should be entirely the responsibility of the Centre as at present. Allother elastified roads should be the responsibility of the State Governments.
- 14. Design construction and maintenance of highways are intimately competed with traffic development and safety requirements. The Highways Department in the States should therefore, have a suitable cell to deal with traffic engineering road standards sizes and weights of vehicles, and provision of mentities for road users.
- 15. Closetechnical co-ordination is essential to ensure an efficient and successful implementation of the Plan. The present method of utilising the forum of the Indian Roads Congress for achieving this objective has proved successful and should be continued.

- Massich groß Sitte 16. With the enormous growth of traffic the technique of highway contruction and maintenance needs specification. It is, therefore, necessary to provide a two years' course for professional training in the department at the commencement of service. The practising highway engineering should also be kept abreast of development highway engineering and technique by providing refresher courses.
- 17. Land acquisition proceedings at present take inordinately long time which results to delays in the execution of road schemes. Appointment of special land acquisition officers working under the Chief Engineers would improve
- 18. The present procedure of tackling encroachment cases through courts is very ineffective. The question of vesting necessary authority in the road engineers soustoenable them to take direct action needs consideration.
- 19. Research plays an important role in road development. All the States should have well equipped road research laboratories. To begin with testing and control laboratories should be provided immediately, some of which could gradually develop into full-fledged research centres. A detailed and organised survey of road building material should be carried out. The co-ordination of research; activities of the various laboratories should be done by a Central Organisation:
- 20. On arterial routes, missing bridges should begiven the highest priority and the hard crust should be widened to two lanes and upgraded to with stand the load of heavy truck-trailer combinations. High priority should also be given to improvement, of rural roads to fair weather standard, including the provision ofcross dralhage works, so that traffic is not dislocated too frequently.
- 21, Full benefit from expenditure on road construction can be derived only by constring proper maintenance of theroads. The expenditure on the maintenance of foods in India has so far been inadequate. The requirements of annual maintenance are expected to rise from about Rs. 30 crores in 1960-61 to Rs. 135 crores in 1990-81. Steps have, therefore, to be taken to provide adequate and for this purpose.
- 22. Road construction and maintenance can provide employment for a very large number of skilled and unskilled labour. It has been estimated that the number of skilled and unskilled labour required for implementation of the Plan world size from about cicht lakks in 1001-60 to 11 the in 1980-81.
- numper of skilled and missilico tabour required for implementation of the would rise from about eight lakks in 1961-62 to 42 lakks in 1980-81.

  23. As regards technical personnel, it would be necessary to increase the angula intribe of graduate engineers from the world between to about annual intake of graduate engineers from about 400 in the 1st year to about 350 in the 20th year, diploma holders, from about 400 in the 1st year to 2, 150 Assignment of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con in the twentieth year and other technical personnel draftsmen, tracers, surveyyorsete.) from about 1,200 in the first year to 2,400 in the twentieth year.

24. The requirements of roads making materials and transport vehicles has been estimated as follows:

#### Road Making Materials

							First year Tons ('000)	20th year Tons ('000)	Total for 20 years Tons ('000)
	(	!)				(2)	(3)	(4)	
Cament .			•			-	400	2,000	24,000
Bitumen .				•			300	1,200	15,000
MildSteel							60	340	4,00
Hightensilest	ee]						5	25	3,000
Special Castat		or be	arıng	s (Bri	dges)		1	7	60
Transport Vehic	tes				•		Parst year		20th year
Trucks .							8,000		30,000
Bullock-carts				•			30,000		1,10,000

^{25.} The rise in the demand of food making machinery will be very appreciable incertain case, as the plan progresses. Por instance, the requirements road-rollers will rise from 2,400 in the beginning to 6,400 towards the end of the plan and that of the motor graders from 400 to 1,200. A consolidated by of equipment required for the implementation of the Plan is given in the Repor

^{25.} Certain types for road-making machinery like flat rollers, sheep for rollers, pumps, stone crushers, tar boilers and concrete to mixers are already being manufactured in the country. Their rate of production is however, not adequate and needs to be stepped up. Steps need to be taken also to start manufacturing motor graders, bitumen mixers and bitumen pressure distributes because the number required is quite appreciable. A concerted effort is necessary to step up the manufacturing programme of all road-making machinery already being produced in the country and to devise ways and means to commence manufacturing other machinery.

^{27.} As it will take some years before heavy earth moving equipment and some other types of road making machinery are manufactured in the country it would be necessary to import such, equipment from abroad for some years. It has been roughly calculated that this will involve foreign exchange of about 1901 to 1901.

# ANNEXURE IV MAIN FINDINGS & RECOMMENDATIONS OF THE COMMITTEE ON RURAL, ROADS

A one man committee was set up by the Ministry of Transport, Government of India under the Chairmanhip of Shri H. P. Sinha, in 1967 rostudy and report on the problems of development of Rural Roads in the country. The Report was published in 1968. The main tasks of the committee were as follows:—

- (1) To advise on the broad principles for the preparation of n phased programme for the development of rural roads to enable optimum utilisation [of, available resources from various directions for such roads;
- (ii) To suggest methods for ensuring that specific resources are earmarked for the construction of rural road;
- (iii) To indicate the basis for determining inter se priority between various categories of rural roads in the States;
- (iv) To advise on measures for the planned execution of the gural road programme, and on toordination of the work of the various agencies employed at present in states on rural road construction;
  - (v) To addise on measures for the proper maintenance of rural roads; and
- (vi) To advice on the machanisation of rural road construction, maintenance and effective measures for obtaining the necessary maintenance equipment.

#### Scope of Rural Road

The committee defined Royal roads as those roads which serve predominantly the needs of villages and provide communication, not only between one village and another, but aslo from one village to mind; (market place) or to a main route. The rural roads will include village roads and other District roads only.

#### Target of Work

The Committee has suggested that the targets for road development for the next 20 years need not be kept any higher than those indicated by the Chief Engineer. Therefore, the Committee envisages the development of a total length of 3,24,000 Kms. of village roads and 23,04,000 Kms. of other. District roads. The cost will be Rs. 535 and Rs. 895 crores respectively intental Rs. 1,430 crores.

#### Main Recommendations

Resources for Rural Road Decelopment

For achieving targets of the Chief Engineer's 20 yearsplan, the Committee has suggested that the eapital expenditure required should be spread out as follows:—

•					To	TAL	•	•	Rs.	1,430	crores .
7th Plan	•	•	•	•	•	٠	•	•	Rs.	445	*. 30 B
6th Plan	•				•				Rs.	385	100
5th Plan	•	•	•		•	•	•	•	R5,	335	الله أنه الم
4th Plnn						•	•		Rs.	265 c	rores

At least 1/3rd expenditure on capital works should come as contribution from the people. The money so contributed should be utilised in that very area There should be an assurance of minium fund for the Rural Roads Programme. For this purpose a portion of specific revenue which pertains directly to roads (such as diesal tax) might be carmarked. It is estimated that Rs. 150 crores were collected through diesel tax in 1967-68 and this mount would rise to Rs. 220 crores by 1971. Each State should pool together all the resources carmarked for developing Rural Roads and should spend through a unified agency. The Committee estimated the maintenance expenditure at Rs. 15 etores per year in the 4th Plan period which could rise to Rs. 50 crore per year in the 7th Plan period. The fund for this purpose should, in full, be arranged by the Government and Local Bodies. As a measure to reduce the milutenance expenditure, the Committee suggested that the Subsidisinchalf of the cost involved in the initial change-over and by other incentives like tax rebate on peumatic tyred earts and by giving preference to rated road construction in those areas where this change is accepted by the

#### Basis for Inter-se Priority

The Committee has suggested the following four priorities in phasing the 20-year annal road development programme:

(i) Areas where special steps have already been taken a rapid increase in agricultural production, e.g. under the programme of Intensive Agricultural Districts.	or he	40%
(ii) Areas wherevillages will get connected to the existing road system by constructing just few short lengths rural roads.	ng of	20%
(m) Backward area		20%
(10) Areas where no other means of tansport are available		20%

#### Organisation-Set-up

In order to have effective coordination in the widely dispersed works of Rural Roads, it is necessary to have a high level Board in each State for examining the broad aspects of planning and allo cation of funds, as well as for evaluating the progress. A similar body at the Centre is also necessary. These bodies should be presided over by eminent persons and the membership should be drawn from:

- (i) Member of Parliament and Legislative Assembly.
- (ii) Member of Local Bodies.
- (in) Senior Government Officers of concerned Department.

For receiving undivided attention, all the rural works, in a State should be looked after by a separate full-fleged Engineering Department headed by a Chief Logiager. Till such time, the work load does not justify the erention of a separate cell for rural roads, it should be put under the charge of Chief Engineer of some Engineering Department e.g. Highway Department, but the charge of actual execution should be given to an officer of the rank not less than Executive Engineer.

The smaller Local Bodes, namely the Panchayat and Panchayat Samiti should be given maximum powers as their works will be smallaod of local importance. There should, boweyer, becoordinating committees indistrict and regional levels for works pertaining to the Zila Parishads.

### Maintenance of Rural Reads

The Committee attaches importance to the maintenance of the rural roads. Since the past experience shows that major part of the village road, constructed by the Department of CD & NES has vanished due to lack of proper maintenance. A judicious use of men and machines, will provide the most of appropriate answer to the vast problem. The Committee recommended the use of motor grader for maintenance of roads. Some relief may be given by the Government by waving off or reducing custom and excise duties on motor grader.

### Maintenance and Utilisation of Machinery

For economy and efficient utilisation of machineries the Committee has suggested that a pool of machinery should be formed for 5 to 6 Districts with spare part facilities and formation of Central workshops for providing repairing facilities for the equipments.

### ANNEXURE V

### SUMMARY OF RECOMMENDATIONS OF THE STUDY GROUP ON MOTOR VEHICLES TAXATION

## Gentral Levies

The Union Government should set up n Central Bureau for studying the problems, oftaxation ou motor vehicles on a systematic basis. This Bureau can follow the guidelines that the Road Transport Tastation Enquiry Committee may formulate, paraneing area, the need for ensuring uninterrupted flow of trade and competent, the need for ensuring uninterrupted flow of trade and competent the paranetes of the various States, mercewith the ways and means requirements of the various States.

## The Motor Vehicle Tax

- 2. The Inter-State Transport Commission should allocate the number of regular permits for Inter-State routes, taking into account the stages oftransport development in the different areas nod also their traffic requirements. The Commission should keep the current revenue of the States from motor vehicles also in view while determining number of inter State permits that may be issued by each of them. The States, which are unable to issue all the permits that they are entitled to, should devise suitable jocentives to induce expansion of their Vehicle registrations instead offesorting totaxation of vehicles registered clsewere.
- 3. The distinction between temporary and regular permits in the matter of taxation should be given up simultaneously with conversion of temporary permits into a reasonable number of regular permits.
- 4. Immunityfrom tax should be extended to all corridor routes of a length of 50 miles and less subject to the condition that the vehicles do not pick, up or deliver passeogers or goods within the corridor. This immunity, should cover passengers and goods taxes also, if the States do not see their way to accepting any of the alternatives to these taxes.
- 5. The tax assessed in respect of each vehicle should be correlated to the weight restrictions, if any, laid down for the route or area covered by the permit of the vehicle. In other words, the tax on the vehicles should notexeed whatis payable on the basis of its permissible laden weight forthat area or route, unless the vehicle can carry its full load over a good part of that area or route. 1. . .

- 6. Tax should be clastified not merely according to the actual carrying capacities of motor vehicles and the load limits enforces on different routes but also with reference to the length and traffic potential of route of area of operation for which a permithas been issued. An de-hoc reduction of 25% to 50% afthe normal rates, depending so the operational conditions obtaining in the urban or ruralarea concerned may be justified.
- 7. A graded scale oftax, based on the distance covered by n vehicle outside its home. State and not on the number of States through which it passes or the rates of taxes in force in those States, may be adopted. The tax hability in respect of routes outside the State limits may be fixed with reference to an absolute all-India standard. It may be R. 2,500 per annum for a vehicle which has a pay-load upto 7 tounes (corresponding to RLW upto 11 tounes) or Rs. 3,000 for a vehicle which has a parmit for a route 600 miles or above in length outside the home State. The extra-state route mileage may be reduced by 50 miles for the purpose of the calculation.
- 8. The standard rate may be divided into the following slabs:-

### Distance

Tax-Payable

First 50 miles outside the "Home State" (The state of registration of vehicle)

Nil

From 51 to 150 miles outside Home State 25% of the Standard tax-From 151 to 350 miles outside Home State 50% of the Standard tax-From 351 to 600 miles outside Home State 75% of the Standard tax-

Over 600 miles outside Home State . . 100% of the Standard tax.

^{9.} The standard tax proposed above takes goods/passeoger tax payable he a vehicle into account and, therefore, there should be no additional liability for these taxes in any State other than "Home State".

^{).} On a balance of considerations, the second best ulternative to a start dard-inter-Staletax should be nu udditional Central Fuel Import of diesel oil.

- 11. If the Standard Tox, recommended in para 7, is introduced or excise duty on diesel oilis increased by just over 0 poiss per litre, therevenue that the "transit" States may forega, if they exempt outside vehicles with inter-State permits from motar vehicles, gaods and passenger tax, will be more than made up.
- 12. A warking farrula for distribution of the proceeds of the additional diesel levy among the different States can be framed with reference to the sum of (a) length of surfaced rands in a State and (b) 25% of the length of the National Flighways in the State. The needs of oreas like Delhi, Goaete., which do not have large rand mileage but the traffic impartance of which is cansiderable, can easily be met by reserving for them a percentage of the total revenue callected before distribution as above.
- 13. Implementation of the above arrangements will necessitate suitable amendment of the Stote Mater Vehicle Taxatian Acts and the Taxatian on Passenger and Goods Acts. The States will have to provide for levy of the Standard inter-State tax in lieu of the local toxes and for the assessment and callection of the levy, on behalf of the States are at its agents, by ather States.

### Passenger & Gaods Tox

- 14. The distinction between vehicles which carry goads for hire ar reward and those which carry the awners' own goods has no justification. There had been asteady increose in the number of trucks operated "an awn account" as against public haulage vehicles as a result of the existing livensing and taxation policies; and this is an undesirable trend which requires to be arrested.
- 15. The taxes on goods and passengers carried by rand shauld be merged with the tax au vehicles. Such cansolidation does natimply a reduction in the aggregate revenue, tinco the tax on manor vehicles, which is clastic, can be raised to a safficiently high-level to cover the current and expected revenue from all the taxes tagether. If, however, this prapasal is nat acceptable to the State Governments, vehicles registered outside the State and plying an inter State router should be exempted from the local lovies, by adaption of the Standard Tax recommended in para 7 obsect.

#### Mataz Vehicles Fees

16. Fees are meant to caver east of odministration. A coosistent and rational scale affect or a formula, commensurate with the actual cost of the services rendered should be drawn up on all-Indua hasts. In working out any scale orformula, itshauld be barne in mind that (i) countersignature of renewal of a permit does not call for any significant additional lohoar ond that no more thon a small proportion of the fee payable for such services in respect afthe instant permit should be levied, (ii) it would not be expedient for a Stote ohavetwasets offees, one for vehicles registered in the State and another which

is higher, for vehicles registered antiside, and (iii) the value of a route or area vermitor of the registration of a vehicle etc. in the operator concerned would be an extraneous factor in the assessment of fees.

### Local Levy (Octrni etc.)

- 17. Octroi is an incurably bad levy. It should either be replaced by more rational and less primitive from of taxation or suitable increases should be made in the rate of the existing taxes to make up for the diminition in resonances, which its abolition may entail.
- 18. The following suggestions, which have been made from time to time hyvarious bodies individuals in connection with the proposal to abolish cetroi should be implemented by the States with reference to their individual needs and circumstances:—
  - (i) Imposition by State Government of surcharge on sales tax on specific commodities with reference to local sconditions and needs;
  - (ii) aturn overtax depending on sales of certain commodities within municipal limits;
  - (iii) earmarking of a portion of States' revenue from motor vehicle tax and its distribution among the concerned municipalities on the basis, of their population, financial requirements, importance from the traffic angle etc.;
  - (ie) construction of by-passess sufficiently far from municipal limits to avoid extension of the limit to envelop them; and
    - (c) provision of a radial free way, wherefensible, for "through" or transit, traffic.

### Cognate Matters

- 19. Multi-purpose check-posts for sales tax excise and motor vehicle etc. equipped with automatic tickt weight bridges may be installed, where necessary, inter-State borders to be manned jointly by officers of the States concerned either by the rotation or simulaenensly.
- 20. The State Government may provide check-posts with rest-rooms and canteens for drivers, garages nr repair for vehicles, and mobile break-down wans for drealing with vehicles which may be obstructing traffic nother highway.
- 21. The procedure in Mysore, where transport companies are not being asked thunload goods if they undertake to deliver them the consignees only after they furnish the necessary documents to the salestax department, may be adopted to the other State also.

- 22. The forms that are used by operators should be standardised so that they become self-explanatory. The Union Ministry of Transport might review sear to the forms that a vehicle has to carry for different purposes in consultation with the State Governments.
- 23. Additional information with regard to the value of the consignment salestax registration number of the consignor and consignee and confirmation that the allestax has been or will be paid may be included in the form of way-bill evolved by the Transport Ministry in 1953.
- 24. The State: Governments should advise their enforement authorities pottoattach undue importance to minordetalls and inconsistencies while checking vehicles at the barriers.
- 25. Federalstandards and procedures should be prescribed for the various apects of operation of vehicles of inter-Stateroutes so as to achieve uniformity.
- 26. The State Governments may, as a coovention, refer all disputes relating to motor vehicle taxation on inter-State routes to arbitration by the Inter-State Transport Commission.
- 27. Collection of all the taxes on motor vehicles, including goods and passenger taxes; should be entrusted to as ingle agency, preferably the department which Issues permits for transport vehicles.
- 28. Operatious' organisations should be built up for providing a "tax service" to their members. This machinery can also be employed to make the operators alive to their rights and duties and to distribute standard loans, way bills and other standard to return the constructions for their maintenance and submission. Such a service can be introduced in cities where there, is heavy concentration of commercial vehicles, c.g. Bombay, Calcutta, Delhi and Madras and can be extended to other places in the con-

### ANNEXURE VI

### SUMMARY OF THE RECOMMENDATIONS MADE BY THE ROAD TRANSPORT TAXATION ENQUIRY COMMITTEE

### A. Recommendations made in the interim report "Inter-State Transport"

- (i) Thereshould be central legislation to lay down uniform principles of taxes (on motor vehicles) and licensing thereoffor the whole country. The Government should examine whether the existing entry 42in the Union List in the Seventh Schedule to the Constitution covers taxation on motor vehicles engaged on inter-State routes. If this is not so, the Constitution may be amended suitably to provide for control of taxation on inter-State transport by the Inter-State Transport Commission
  - i) A commercial vehicle should beregistered in the State where it is normally kept and a primary permit in respect of it issued by the I home State. The vehicle will pay all the necessary taxes to that State, in cluding road tax and tax on passengers and goods carried in the vehicle. A vehicle, which desires to carry inter-Statetraffie; will have to obtain an additional permit (which willbe, in fact, an extension of the primary permit) which should be granted by the Inter-State Transport Commission. The legislation that may be, undertaken by the Government of India or empowering the Commission to collect taxes in inter-State transport should specifically provide for the assignment to State of the proceeds of the levy so imposed and the principles distribution thereof. The quantum of tax to be paid by vehicles employed inter-State transport should be settled after consulting the State Governments.
- (iii) The Inter-State Transport Commission should be reconstituted & moze. The reconstituted Commission should be given all the power at present mentioned in Section 63(A) (2) of the Motor Vehicles Act and also the powers mentioned in the Rules framed under-Section 63-C, of the Act by including them in the substantive law. The Commission should have a Chairman of a high status, preferably chosen from public life and two other full time members, who have wide experience of administration or transport or inance or economies. The Commission should have a high status similar to that of Union Public Service Commission, Forward Markets Commission, Tariff Commission, etc.

- B. Receimmendations, made in the interim treport on Octros and other Cheek Poses's.
  - (1) Octroi (including terminal tax and tolls) is a vexatious and out-moded form of taxation and should be abolished as quickly as possible in the States, where it is still levied.
- (ii) The loss in revenue due to abolition of octroi/terminal taxes may be (II) And to sain repend the said as surcharge on sales tax, Municipal made up by alternatives, such as surcharge on sales tax, Municipal surcharge on sales tax and Municipal turn overlax, saids tax, Municipal surcharge on sales tax and Municipal turn overlax. A comment of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surf vernment to select the alternatives which suit them best.
- (iii) Section 15 of the Central Sales Tax Act places certain restrictions in respect of the rate of takes tax or purchase tax on "declared goods" specified in Section 14 of that Act. Inlevying municipal sales tax of specified in Section 14 of that Act. Inlevying municipal sales tax of the specified in Section 15 of that Act. Inlevying municipal sales tax of specified in Section 14 of that Act. Inlevying municipal sales tax of the specified in Section 15 of the state of and the Central Government may allow States to icry tax on sugar, to bacco and textiles without furfeiting their share of additional excise duty.

  (iv) The existing check posts, setup by the State Governments are a great impediment to movetnent of traffic and slow down traffic. The system of check posts should be completely reorganised and the number of check posts seduced to the minimum. The multiplicity of check posts reduced to the minimum. The multiplicity of check posts setup as those for Sales Tax, Transport Department, Police, Prohibition, Smuggling, Forestand Givil Supplies Deptts, may be converted into a consolidated check post organisation created to serve the needs of the various departments concerned. needs of the various departments concerned.
- (v) The combined cheek posts should be equipped with ticketed weigh-bridges and should be located at sufficiently long distances.
- (vi) The system of dying squads may be adopted for further checking and motor vehicle offences may be dealt with by Mobile Courts.

The above recommendations raise issues of policy which require careful consideration. Moreover, matters relating to abolition of octroion and its replacement by one of the alternative lovies, suggested by the Road Transport Taxation Enquiry Committee, primarily concerned the State Governments.

G. Recommendations contained in the final report

The final report of the Road Transport Taxation Enquiry Committee was submitted to Government on 29:11-67. The following main recommendations:

has become adis-incentive to the growth of road transport industry.

Some relief should be given, or at least no further changes should be made in the existing level of taxation, except after mature consideration in the light of the principles enunciated by the Committee and with reference to the advice of the expert advisory bodies proposed in [1] below.

- (ii) The Central and State Governments should set up standing expert advisory bodies comissing of person who have special knowledge of problems relating to road transport industry/administration/economics/finance to review, from time to time, the working of the road transport industry with special reference to the impact of taxation thereof and formulate suitable proposals for consideration of the Government concerned.
- (iii) In determining the quantum of any tax, the following prioriples should be taken into consideration, in addition to the finnelal requirements of the States;
  - (1) Cost of operation.
  - (2) Prevailing fare and freight rates.
  - (3) Utilisation of vehicles as detailed below :-
  - (a) Distance travelled.
    - (b) Frequency of services.
    - '(e) Carrying capacity.
      - (d) Load factor.
  - " (e) Area of operation.
  - (4) Capacity of the industry, the transport users and the public to bear the tax burden.
  - (5) The general level o development in the region and nature of ter-
  - (6) General price level prevailing in the State.
  - (7) Programmes of road construction and maintenaoce; and
  - (8) Impact of the growth of ecocomy.
- (iv) The above principles should apply to all taxes levied by the Geotre
- (v) Parliamentary legislation should be enacted laying down uniform principles of motor vehicles taxation throughout the country.

- minimum and it would be preferable for all the States taxes to be colleted by a single agency. Fueltax is an ideal way of realising revenue from motor operation.
- (vii) Uniformity in tax procedures in the first step for rationalisation of the tax structure on an all-India basis. It is, therefore, necessary to have, in the first instance, registered laden weight, as the basis for computation of motor vehicle tax for goods vehicles.
- (vii) In the case of state carriage, in addition to carrying capacity, the basis of motor vehicle tax should be the permitted daily mileage.
- (ix) State carriages operating on short routes with low frequency of services should be given tax rebate.
- The Central and State Governments should consider a concessional rate of less. rate of, tax for light commercial vehicles of a pay-load of I tonne or
- (xi) Government should take early and urgent measures to bring down the Drices of commercial vehicles substantially.

  (xii) Because of the nature of the road transport industry, it is desirable to allow it to earn a return on capital larger than that is only a second transport. allow it to carn a return on capital larger than that in other industries.
- (xiii) If the country is to benefit from the contribution which roads and road transport should make to economic and social development, there is no escape from earmarking considerably more funds for development and maintenance of roads than is done at present.
- (xiv) There should be uniform permissible laden weights in all States, on inter-State routs and particularly on National Highways, Expeditious action is necessary to bring all National Highways to the required specification cations in the interest of promotion of tourism and the cultural and entions in the interest of promotion of the country.
- (xv) Contract carriages, running on regular temporary or special permits contside the Home State, should not be required to pay any other tax or fee in the States travelled by them.
- (xvi) While it is necessary to subject goods vehicles operating outside the home State to an additional tax, known as inter-State Standard Tax. Inter-State passenger vehicles need not be subjected to such additional tax liability at present.
- (xvii) The committee does not recommend regulation of freight rates by State Governments. This should be left to be determined by the conditions of demand and supply.

- (xviii) Goods booking agencies should be regulated and this business be brought under control by a licensing system.
- (xix) Development rebate which has been withdrawn, should be stored for the expansion of road transport which should be included in the list of priority industries entitled to tax relief.
- (xx) It should be ensured that adequate supply of capital is available to private operators and State Road Transport Undertakings for purchases of vehicles.
  - (xxi) Taxshould not be levied in the guiscof ices which are to be clarged, for specific services rendered.

#### . ANNEXURE VII

# SUMMARY OF CONCLUSION AND RECOMMENDATIONS MADE BY THE STUDY GROUP ON ROAD TRANSPORT FINANCING

- 1. The Study Group hove estimated that the amount of the loans and Advances to be provided from organised institutions to the operators will have to be increased to Rs. 100 to Rs. 125 croresperannumin 1970-71, as compared with obout Rs. 60 crores at present. Therefore, the odditional requirements might heabout 10 to 15 crores every year during the next five years.
- 2. The capital cost of a commercial vehicle has been increased niready, mainly because of government levies, upto a point at which further investment by transport operators on new vehicles and the replacement of the existing vehicles is becoming difficut. Government and the automobile manufacturers must explore ways and means of arresting any furtherincrease in prices, nod if possible of reducing the cost and improving the quality of the vehicles.
- 3. Government's decision on the report of the Road Transport Truxation Paquiry Committee under Dr. Keskar, should be taken and announced very early. As far as possible, the need for establishing and reducing traces should betaken in consideration. The additional revenue, resulting from an occelerated rate of development of road traosport, willin the opinion of the Study Group adequately, compensate the Governments for any restraint in increasing the level of road toxes any further. 13/2/16 ---
- 4. In the interest of making transport by roads safe and more oftractive sodown and storage facilities, insurance of goods while in transit and standardiention of commercia practices relating to the treatment of lerry receipts as documents of title for goods will be necessary. Commercial banks and insurance companies, repsectively should provide the necessary facilities for this purpose.
- 5. The study group has recommended that in the interest of orderly growth of hire-purchase finance in this country and financing of the road trace port industry in particular, high priority, should be accorded to the Hire-Purchase Bill and it should be enacted and brought into force agearly as possible and its provision should be applicable to motor vehicles in the same nanner and its provision should be applicable to motor vehicles in the same nanner and to the extont as in the exic of other goods. The Study Group has further luggested that it is not at this stage necessary to provide for licensing of hire functions a companies. 575 Purchase fluonee companies:

- 6. The liberal interpretation of the provisions of Section 3 of the Banking Regulations Act, 1949, permitting banks to obtain certain types of documents or safe-guarding their interests, while advancing loans directly or indirectly to transport operators, should be brought to the notice of the banks concerned.
- 7. The development relate, which was originally granted to the road transport industry, should be resorted. The road transport industry, should also be treated as a priority industry, entitled relate from income tax at a rate of 8%. Companies and Corporations entitled to this relateshould agree to refund the amount of this relate, for the purpose of floancing the acquisition of new or the replacement of old vehicles.
- 8. The study group has suggested that after the other recommendations in their report have been accepted and implemented, the question of simplifying the scheme for guaranteeing loans and advances granted to smalliscale industries oas to cover the small road transport operators, should be considered by Central Government in consultation with the Reserve Bank of India.
- 9. The manufacturers of automobiles and the larger dealers should consider whethernew hire-purchase finance companies cannot be promoted by them for mobilising resources and assisting the operators.
- 10. The existing bire-purchase finance companies should, with a view to qualifying for assistance from commercial banks and Industrial Development Bank of India, improve the methods of working and operation, particularly by (a) confirming to the directions issued by the Reserve Bank and maintaining registering the form of the returns preseribed by the Bank, (b) segregating the cashered accounts relating to hire-purchase transactions, which are eligible for refinance and (c) increasing their paid-up equity capital, free reserves for bad and doubtful debts and contingency or inner reserves, over a period or time.
- 11. The State Road Transport Authorities should carry out a systematic survey of the areas in which road transportean be developed, within the respective States and the State Financial Corporations should consider the grant of direct loans to larger number of transport operators.
- 12. Transport Cooperatives providing specialised and service facilities to the road transport industry should be promoted, wherever this is feasible, and the question of establishing cooperative hire-purchase finance should also be examined.
- 13. As a measure to nugment more resources, the Road Transport Corporations in the public sector should also consider whether, like State Electricity boards, they can borrow certain limited amounts in the open market against the guarantees of the concerned State Government. For this purpose and also on other consideration, the public sector Road Transport Undertakings, which are not already incorporated under the Road Transport Corporations Act, 1950, should be constituted as independent autonomous Corporations.

### ANNEXURE VIII

## SUMMARY OF THE RECOMMENDATIONS OF STUDY GROUP ON VIABLE UNITS

(i) Thereshould, be a network of transport associations in the country, the last ring in the ladder being viable units. In each district, road transport associations should be formed. These viable units might be affiliated to Distrations should, in turn, be affiliated to State Associations, the Distrations should, in turn, be affiliated to State Associations and State Associations to all-India Road Transporters Association, That is to say operators should find themselves associated not merely, at the district level but should also find their way to national levels. The Group leels that the cause of road transport industry will be hetter served, if the industry is unably recognised so that the operators are able to ventilate their grice-vances and seek redress in an effective manner through the forum of association.

(11) A viable unit should consist of at least 10 vehicles in goods transport should stage carriages with a spare hus in the case of passenger transport. (The group did not recommend a spare truck for viable unit in goods transport). In recommending the above size for stage carriages, the group has assumed n stage carriage will do 36,000 miles in a year.

A viable tinit can be formed of :-

(a) un individual;

(b) a proprietory or partnership form;

(c) ajoint stock company, publicor private;

(d) a registered co-operative society, including service co-operative;

(e) an association of vehicle owners to be duly registered under law to be framed for the purpose, if necessary.

(iii) The test of viable, unit in the transport field is that it should have (a) a Central or unified, organisation of any character, servicing (b) provided

acilities for booking of goods and passengers; and (c) provide repairing and other scilities. Such a viable unit should be recognised under the Motor Vehicles Act.

- (iv) In the matter of granting permits, although for an effective control over the whiteless of the viable units, permits should be granted in the name of viable units yet the group felt that it may not be advisable to do so, at this stage when a considerable number of single operators exist in the country.
- (v) To encourage the small operators to form viable units, they should he given incentives in the nature of 10% rebate on motor vehicles, tax for the first 5 years, preference in the matter of counter-signature, rebate in insurance premium and other such facilities which are available to big fleet owners.
- (vi) Persons having ten trucks or five buses in the aggregate can join together and form an Association to be duly registered for providing services ing and repair facilities, making arrangements for booking and forwarding of goods and such other functions which will ensure more efficient services. Every such association should be a registered body and should dischargeall such doubt no many be prescribed by the State Governments. In such a set up, the property rights over the vehicles will continue to remain with the owners of the vehicles and will not vest with the Association. In the same way, the permits will nlso remain with the member-operators, while the Association stands as a independent organisation giving service facilities to its affiliated members Although such an association will not itself be a viable unit, the members thereof will be considered as members of a viable unit and would be entitled to the same facilities and incentives as any other viable unit.

If, for any reason, any member of a viable unit is dissatisfied with the working of the unit, he may recede from that particular unit and join another unit in the area. However, a member operator should not be allowed to exercise this ontion other than once in a year.

- (vii) Small operators can also organise them selves into service co-operations or providing the common facilities. The members of such a society will also be considered as members of a vinble unit.
- (viii) There should be no compulsion by State Governments in the formation of viable units. These units should, spring up voluntarily and spontaneously.

- ix) In the interest of proper development of road transport, Government should take steps to educate small operators on the desirability of formation of viable units. If, in suite of the incentives, a single vehicle operator is not willing to join a viable unit, he will still be allowed to continue to function.
- (5) The State Government may have to incure an expenditure of abouts Rs. 6 decrees per aguing on account oftex relate to viable units. The share of each: Government will not exceed Rs. 50 lakis per annum. This according to Study Group's estimate; will give the industry an additional income of Rs. 40 crares per annum and yould create a demand for 4000 additional vehicles per annum. This in turn would increase the State resources.
- (xi) To remove the uncertainy in the mind of private operator in regard to nationalisation of road transport service the Government should draw up and publish their time-schedules of nationalisation of passenger transport.

Likewise; they should also examine whether it is necessary, to enter the field of goods transport and, if so, formulate specific schemes in this regard formulation in the plans. If this is done, operators will now where example they stand vis-a-vir nationalisation and will be encouraged to investing the transport industry because they will have the certainty that they will not be dislodded from their dresent business of a reasonable period.

# ÀNNEXURE IX MAIN CONCLUSIONS AND RECOMMENDATIONS OF THE GOMMITTEE ONTRANSPORT POLICY AND GO-ORDINATION

The committee on Transport Policy and co-ordination was set up in July, 1959, under the chairmanship of Shri K. C. Neogy. The Committee Submitted its report in 1966. The specific recommendations of the Committee are:—

### 1. Road Development and Road Policy

Roads are so crucial to national and regional development and resources involved are of such substantial magnitude that the careful planning and constant search for economy must be regarded as the Leystores of road programmes infuture, whether these are undertaken by the Centre or the Statesor by Local Authorities.

In view of the large investment involved, the Committee recommended adoption of economic criteria in the selection of road works to the utmost extent possible cost benefit analysis.

The road plans should take full account of the industrial and other devlopment needs as these are likely to arise over a period of years. The specific recommendations of the Committee on road planning are:—

- 1 Centreshould develop the National Highways system steadily since these from the important trunk routes. The Centreshould increasingly assist in the construction of selected roads which provide inter-State links and have specific economic importance because these roads are a convenient and flexible means of removing important gaps in communication between states and also these roads are important both from national and regional point of view.
- 2 The state, on the other hand, should pay more attention to the development of rural roads and improvement of road communication in the economically backward areas. In case of rural roads, priority should be given to areas in which intensive agricultural development plans are being undertaken or wherenew reasources, such as irrigation and power, have come into use and their fullest utilisation along with complementary development is likely to promote rapid economic growth.

  580

- The development of sural roads, the State should earmark a certain portion of their funds—a minimum of the 1/5th of the State allocation for roads. Centre should give anistance for development of rural roads as well as roads in the backward areas. The amount of grant in both the cases should be 1/3rd of the outlays incurred on them by the State.
  - A. In the metropolitan areas and other large cities, it is necessary to take long, term view of transport, needs, both for passengers and for goods. The transport planning in the cities has to be closely related to the scheme of long term urban planning and location of industrial and economic activity.
- 5 Suitable norms should be established for the maintenance of roads especially National and State. Highways.
- 6 The Committee dittoed the recommendation of the Transport Development Council on the creation of Road Planning Board, both in the Centre as well as the States. These boards will consider plans of road development in the wider economic perspective and in relation to the economic and other criteria. Their task will be to course that roads can make maximum contribution to economical and the contribution. to ecocomic development.
- 7. In the Interest of systematic long term road development, the Committee has stressed that the resources available from Central Road Fund at the Centre need to be enlarged. A flexible non-lapsing source of this nature, from which certain, types of specific schemes can be initiated by the Centre has advantages which are not to be measured only by actual amount allotted.

Besides the above specific recommendations, the Committee made a number of other, recommendations, vital for the construction of ster roads. Precisely those ore :--

- 1. Adoption of modern and advanced techniques in road construction.
  This would require opening of testing, and control laboratories in all States which would work in association with Central Road Research Institute.

  2. Setting up of Righway Research Board at National level for collection and dissemination of the results of research done in the various laboratories.

  3. Setting up of necessary organisation to check up that the research methods recommended for particular road works are properly applied.

- 4. To gain speed in operation and to ensure control over quality, road construction equipments should be manufactured within the country.
- 5. Greation of a central road construction agency with the Central Government which can supplement the State agencies to the necessary and.
- 6. Setting up of separate Highway Departments with the specialised highway and hridge engineering personnel for technical guidance and supervision in States where volume of road construction work is quite large.
- 7. Setting up of special Traffic Engineering Cells, in the Highway or Public Works Departments of the States devoted to and equipped for task of carrying out traffic studies and giving attention to the problems of traffic engineering and road safety.

### II. Road Transport

The regulation of road transport, conceived as a tool of planned and cofordinated development, rather than as a restrictive device, has a functional role in the development of road transport in keeping with the growing needs of the economy and as an integral part of the total transport system of the country.

The following are the main recommendations on-

- yet for future development of pastenger services there is need for a regional approach. Such an approach stresses the requirement of local economy, helps adapt the forms of investment to the needs as established, ensures closer coordination with railway services and provides a continuing test of progress in reaching into the interior.

  2. Special steps (like tax concession to operators etc.) should be taken to encourage the rapid growth of passenger road transport in backward districts and regions.

  3. Inter-State passenger services should in future be licensed authority of Inter-State Transport Commission of recipients.

  - of reciprocal agreements for number of permits to be issued should he abandoned.

The following are the main recommendations on goods transport.

### ntra-State Momement

In case of intra-State Goods Transport the concept of 'Region' as defined in the Motor Vehicles Act and the functions performed by the Regional Transport Authorities in the States (counter-signing permits) do not suit the needs

if the present time. For healthy development of road transport within State, the focus in the regulation of road transport hould shift from Region State, the focus in the regulation of road transport Authority State and its economic needs and also from Regional Transport, Authority

However, for development of certain backward regions, where transport facilities have considerably lagged behind the Committee recommended the need for integrated transport plans with special emphasis on the development of the plans with a property of the plans with special emphasis on the development of the plans with a property licensing of vehicles on a regional basis accomplisted by the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plant with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plans with the plant with the pl ofroad network and to an extent licensing of vehicles on a regional basis accompanied by concessional tax rates and other incentives to operators to provide transport assessment. transport services in these regions.

In case of long distance inter-state goods movement there is need for a powerful Inter-State Transport Commission (may be redesignated as Inter-State Transport Commission) with a full time Chairman, having wider between and functions. The present practice of reciprocal agreement should be replaced by a system of inter-State permits, issued under the authority of the replaced by a system of inter-State permits, issued under the authority of inter-State Transport Commission. This body will work in close collaboration with the State Transport Authorities and Railways. The function of the Committee the State Transport Authorities and Railways. with the State Transport Authorities and Railways. The function of the Commission willbe to access the requirements of Inter-State Transport over a given prefed of the Commission of the Commission will be to access the requirements of Inter-State Transport over a given prefed of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of th period of time on the basis of careful economic and technical studies. For this the Committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be equipped with adequate machinery to elicit informations and the committee should be expressed as a committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of th tions concerning traffic requirements.

Having decided the quantum of traffic requiring long distance inter-State permit; over a given period of time, the permits could be issued by the State permit; over a given period of time, the permits could be Transport Authorities on behalf of the Inter-State Transport Commission. The number of permits to be issued by each state to its operators could be decided by some agreed principle of equity. Such as, route mileage, volume decided on some agreed principle of equity, such as, route mileage, volume

For minterrupted movement of the vehicles moving on long distance later-State route, the Committee suggests that for these vehicles some common property the should be be adopted throughout the country. colour should be prescribed to be adopted throughout the country.

By putting: through the above scheme, the Committee feels the scope for temporary permits will reduce considerably. Temporary permits will reduce considerably. compounts permits will reduce considerably. According special and short term needs.

## Regulation of Freights and fares

To make coordination between rail and road transport more effective, the State Legislation should clearly empower the State Transport Authorities to fix both the maximum and minimum fares and freights and also that there should be strict enforcement of these fares and freights. For better enforcement of this, the Committee feels that establishment of Association of Road Transport Operators both at regional as well as state level, may prove useful. Of this, the Committee feels that establishment of the prove useful.

Operators, both at regional as well as state level, may prove useful.

### Strenghening Road Transport.

With a view to improve the efficiency of the present road transport industry the Committee recommended reorganisation of the industry in three main directions,

- 1. Small operators should be helped to join together to form viable units;
- 2. Cooperative transport undertakings should be actively promoted as matter of public policy; and
- It is essential to provide in the legislation for formation at the State and regional level of associations of transport operators with specific functions and responsibilities.

### Financing Road Transport

The Committee has shown its concern, on the lack of facilities of finance in this sector. It has stated that unless hanks and other financial institutions complete frame of the financial financial facilities in a big way, will not be possible to secure the development of road transport industry along sound lines or realise the measure of development envisaged for in the Fourth Plant. This is a problem of critical importance and dimensions as to demand the special attention of the Ministries of Transport and Finance and the Reserve Bank of India and the State Bank of India.

#### STATE PARTICIPATION

### Passenger Transport

With the growth of towns and cities and more rapid development of the country side, the passenger transport services constitute a risk free highly profitable investment and essentially a public utility suitable for operation on public and semipublic basis. The Committee recommended increased participation of State. Municipal and Cooperative sector in this field and emphasised that the quality of management is the crucial factor in rapid development of road transport as public enterprise.

### Goods Transport

Tye Committee recommended State participation in goods transport on the following grounds:-

- 1. to supplement the effect of private operators to transport goods,
- 2, to help in developing undeveloped regions (hilly and backward regions, where private operators are not willing to come forward,
- 3. It will help in reorganising, and in filling in the gap in the present road transport industry, and
- public undertaking can facilitate the active participation of the 'railway,
  in long distance goods transport by road and thus promote over all trans
  port development.

#### FUNCTIONS PROPOSED BY THE COMMITTEE ON TRANSPORT POLICY AND CO-ORDINATION FOR THE THREE MAIN BODIES SUGGESTED BY THEM FOR ACHIEVING CO-ORDINATION

### (1) Transport Planning and Co-ordination Committee

The existing Planning Committeeou Transport, which suides the work of the joint Technical Group, should be reconstituted and should function as the Transport Planning and Co-ordination Committee. The Joint Technical Group for Transport Planning, which is undertaking studies and economic appraisals should be strengthened and should serve as a Technical Secretariat of the Transport Planning and Co-ordination Committee. The Committee should meet at regular intervaland consider reports and studies, prepared by the Joint Technical Group and Research Organizations in the Ministries of Railways, Transport and Civil Aviation as well as in the States.

### (2) Certral Committee of Ministers for Transport

To facilitate consideration of important question of policy and to provide guidance, from time to time, to the Transport Planning and Goordination Committee and othe Ministries, the Committee angested that the Prime Minister may continue a Committee of Vanisters, contisting of Ministers-in-charge of Railways, Transport and Civil Aviation, Minister of Industry, Minister of Planning, Minister of State in the Ministry of Finance, and Member of the Planning Commission incharge of Transports. The Prime Minister may appoint a member of the Committee to be the Chairman.

### (3) Council for Transport Coordination

Thisbody would be concerned with the general and overall problems of Coordination and, besides reviewing implementation of measures and politics pertaining to the Coordination of transport, would provide direction and guidance to the road transport industry and other interes as well as advise on programme of studies to be undertaken by the Joint Technical Group for Transport Planning, by review of the group the Ministers and technical units established in the States. The Councilwould be composed of members of the Committee of Minister on Transportationat the Centre and State Ministers in charge of Transport and Roads. The Councillor Transport Coordination would sopplement the work of the Transport Development Council specially in fields where considerations of policy demand united action between the Central and the States and the problems of transport sectors a whole have to be considered in their wider setting. He Chairm in of the Committee Ministers would step to a Chairman of the Council for Transport Coordination.

### ANNEXURE X

### RESOLUTION OF CENTRAL ASSEMBLY RELATING TO CENTRAL ROAD FUND, 1929

- 1. There shall continue to believed on motor spritan extra duty of customs and of excise of notices than 2 annas per gallon, and the proceeds there of shal be applied for the purposes of road development.
- 2 (i) From the proceeds of such extra duty in any financial year there shall hededucted a sum as near as may be equivalent to the share in such proceeds vrising from taxed motor spiritused in aviation during the calendar year ending during the financial year concerned, and such sum shall be at the disposal of the Contral Government for allotment as grants-in-aid of civil faviation.
- (ii) The balance of the proceeds shall be credited as a block grant to a sepa rate Road Fund.
  - (iii) For the purpose of this resolution taxed motor spirit shall mean motor spirit upon which the duty of customs or excise shall have been paid and in respect of which no rebate of such duty shall have been given.
    - 3. (1) The Road Fund shall be allocated as follows :-
    - (a) a portion equal to twenty percent, shall be by the Central Government as a central reserve, this percentage being applicable with effect from the allocation due for the financial year 1940-49.
      - (b) Out of the remainder there shall be allocated by the Control ment a portion for expenditure in each State and Territory specified in the First Schedule to the Constitution as near may be in the ratio which the consumption of taxed motor spirit other than motor spirit used in aviation, in each area for which an allocation is to be madeshall bear to the total consumption in the certitory in India of taxed motor. spirit, other than motor spirit used in aviation, during the calendar year ending during the financial year concerned. 587

- (2) The portions allocated for expenditure in Part A States and Part ! States shall be retained by the Central Government until they are actually required for expenditure in the manner herein after specified
- (3) If in the opinion of the Central Government the Government of an Part A State or Part B State hat at any time:
  - (a) failed to take such steps as the Central Government may recomment for the regulation and control of motor yehieles within the state, or
  - (b) delayed without reasonable cause the application of any portion of the Road Food allocated or re-allocated as the case may be for expenditur within the State.
  - (c) the Contral Government may resume the whole or part of any sur which it may at that timehold for expenditure in that State.
- (4) Allsums resumed by the Central Goernment from the account of an State Government as aforesaid shall be re-allocated between the eredit account of State Government and the reserve with the Central Government in the ratio of the main allocation for the financial year proceeding the year in which there allocation is made.

Provided that the sumsocalculated as the three of the State from whose account the resumption has been madeshall be credited to the reserve with the Central Government,

- (5) Special additions to the Road Pand for financing particular projects may be accept-diftom sources other than that mentioned in para 2(2) which shall be kept in a Special Reserve and utilised for such projects.
- 4. The balance to the credit of the Road Fund or of any allocation there of shall not lapse of the cod of the financial year.
- 5 No expenditure shall be incurred from any portion of the Road Fund save of here-in-after provided.
- 6 The Contral resource with the Cootral Government shall be applied first to 1 fraying the cost of all ministrating the Road Fund and thereafter upon such schemes for research and total ligence and upon such special enquiries coar

decied with roads and upon special grants-in-ald for such objects connected with road, as the Central Government may approve.

- 7. The sums allocated for expenditure in the States may, subject to the previous approvaloithe Central Government to each proposal made, be expeoded upon noy of the following objects; namely:--
  - On the construction of new roads and bridges of any sort;
- (ii) On the reconstruction or substantial improvement of existing roads and bridges;
- (iii) in special cases, on the maintenance of roads and bridges, constructed reconstructed or substantially improved from the Road Fund or from oins approved or sanctioned by the Central Government;
- (iv) to meet charges, including the cost of establishment concetted with ration of State Boards of Communications; the preparation of schemes of road development or with the administ-
- (e) to meet charges including the cost of establishment connected with control of motor transport; and
- (ri) so the interest and omortization of loans approved or sacctioned before the date of this Resolution by the Central Government, and spent or to be spint to the construction, reconstruction or substinitial improvement of roads and bridges.
- 8. In considering proposals for the construction, reconstruction or improvments of roads and bridges from the Road Fund, the Central Government shall have regard to the present urgent need for improving the efficiency and reducing the cost of transport by road of agricultural produce to markets and railways,
  - 9 (1) A Standing Committee for Roads shall be constituted consisting of :-
- (4) the Minister-in-charge of Teamport who shall be ex-officio Chairman, the Mioister of State of Transport who shall beex-officio Vice-Chairman, and the Mioister of State for Parliamentary Affairs who shall be
- ex-officio member.

  (b) 15 members selected by the members of Parliament from 5) 15 memocal

- (e) the Chier Commissioner of Railways.
- (2) In the absence of the Chairman and the Vice-Chairman, the members present at any meeting may elect one of themselves, to act as Charlaman of the meeting.
- (3) No approval to any proposal for expenditure from the Road Facd shall begiven by the Committee unless it is supported by a majority of the momentum present and voting.
- (4) All proposals for expenditure from the Central Reserve and all other proposals for expenditure from the Road Fund to be made in the State shall; be referred by the Central Government to the Standing Committee before the proposals are approved:

Provided that the amounts in the Special Reserve, shall be applied only to the purposes for which they are carmarked.

- *10. The functions of the Standing Committee, shall be :-
- (a) To consider the annual budget and account of the Road Fund.
- (6) Tonuviscuponall proposals for expenditure from the Central Reserve
- (e) To a lyise upon the desirability of all other proposals involving expendture from the Road Fund in the State.
- (d) To advise upon proposals for the resumption of monies held by the Central Government as provided in subparagraph (3) of paragraph 3 of this Resolution; and
- (e) To dvisethe Central Government generally on all questions relating to roads and road traffic which the Central Government may refer to the Committee.

The Committee ceased to function after 1951-52 in accordance with a policy decision of the Government of India to discontinue all Standing Advisory Committee of Parliament.

### APPENDICES I to III

### APPENDIX I_(TRANSPORT TERADNOLOGY)

### (a) TERMS IN AIR-TRANSPORT 12 1 1917 11 11

Pauceger

A Perion deconving a senaratere at on a one-way trip.

Ranniger kilometre

The transportation of one passenge toyer but killometre.

Arailable seat kilometres.

Scattavailable for the transportation of passengers multiplied by the kilo-Raisings; load factor

. Ratio of passenger kilometres flown to available seatkilometres of the

Tile transportation of one tonne of goods over one kilometre.

6. Copacity available

Load capacity available for the transportation of goods and passengers after deduction of the operating load of fuel and oil, erew, stewards, emphired etc. In other words, it is saleable transport capacity expressed in terms, of weight. This is also termed as "Paylond" and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the

Available loand capacity makingled by kilometres Bown over each inter-sector fight.

8. Recenye weight load faiter

Ratio of revenue tonne kilometres performed to available tonne kilometres. Rationterenge connection error performent of an analytimm extended and formal three fore; which could not be sold and man therefore; wated.

9. Parametr form

The weight of a maneager including free baggage we. 20 kg, has been

assumed to be .09 Tonne, 

#### (6) TERMS IN RAIL TRANSPORT

### 1 . Capital-at-charge

Capital-at-charge includes the capital outlay on worked lines but excludes that on railway manufacturing units and miscellnacous independent projects such as the Chittaranjan Locomotive Works, the Integral Coach. Factory, the Diesel Locomotive Works, etc.

### 2. Working Expenses

Working expenses are the administrative figures of railway necounts free presenting true expenses of the railway system in an accounting period irrespective of whether the expenses have been disburred. These are accordingly the sum total of the ordinary working expenses and the appropriation to the Dopreciation Reserve Fund (and the Repsion Fund from the list April; 1954 only); the amount of suspense and 'payments to worked lines' are not included.

#### 3. Net Recesus

Netrevenuerepresents the net carning during an accounting period after meeting; all the Revenue charges oxeen the payment of dividend and, of the fixed contribution of Rs. 125 millions from 1961-62 onwards in fieu of tax 08 passager fares to General Revenues for transfer to the States.

### 4. Gress. Teaffie Receipts.

Grosstraffic receipts are gross earnings plus/minus the variation from the provious year's figures and the current year's figures of carnings awaiting realisation.

### 5. Oberating Ratio

Operating ratio represents the percentage of working expenses to grow

### 6. Nei tenns kilametres

Net come kilometres means the movement over a distance of one kilometre on each gauge of the homelino of the tonne of goods originating on each gauge of the kallway, tonnestee ived from non-Government Railways, terries or steamers and Railways inforcing countries, from the same gauges of other Government railways and from other many a of the home railways.

### 7. Tours eriginalian

Toones originating includes tonnes of nil traffic originating on each gauge of the Government Railways system, whether these terminate on the gauge itself or on some other gauge of any railway (home orforeign). Each roone of freight is counted once only on the originating railway irrespective of the overwhele it is carried.

## I. Route kilometres

Roue kilometres represent the kilometrage of Railwayline ewned by a Railway including its worked lines. Only single kilometrage of double lines and more than double lines is included. The kilometrage of tracts, crossings attaitions and sidings is excluded.

5. Peer Wheler:

Server symmetry
Wasons are counted in terms of four wheelers as under:-
bosie == 2 four-wheelors
I Twelve-wheeler -3 four-wheelers
A bogic open high capacity B. G. wagon BOBX type(combined central and side discharge) . =3 four-wheeless
A bogie open high capacity B.G. wagons BODX type(side discharge and inclined floor) . = Sinur-wheelers
A bogic waron BCX type carrying capacity 55.37 =2 four-wheelers
AbogieHopper wagnn B. G. KOH/BKH Non IRS  "Ypecarrying capacity 65 tonnes" —3 four-wheelers
A bogicopen high sided B. G. wagon of high capa- city BOX type
A bogiebaliast hopper B. G. wagons BOB type . =23 four-wheelers
A boste wagon BWL type carrying capacity 50 -2 four-wheelers
A bogie wagon BWT type earrying capacity 55 =24 four-wheelers
A bolic wagon BWH type carrying capacity of =4 four-wheelers
A bogic wagon, BWS type carrying capacity 130 =6 four-wheelers.
A bogic ralihish capacity B. G. wagon BRS/BRH
A bogleopen "Gondala" B. G. wagon of high capa- city BOI type-for iron ere -2 four-wheelers
595

### 10. Vehicle Kilometers ber rehicle dar

Vehicle kilometresper vehicle day denote the average number of kilometres tun per coaching vehicle merchand other coaching vehicles, Vehicle ki-lometres of coaching vehicles and on punengerand introduction in the invited that is any life in the coaching vehicles and the process of coaching vehicles and the coaching vehicles in the invited that is a coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles in the coaching vehicles plied by the number of days in the period concerned. Performance of coaching vehicles run on departmental trains and brake vans does not enter into the cale: culation of this result.

### 11. Wagons Kilometrer per wagon dar - 18 3 a annie nie ben ben beite bei

Wagna cito netres pir was an day capersant the average daily, performance; of a way a in tilo netres both loaded and empty fourneys, and are arrived at b, fividing total wight kilometers by the average number of wagons on fine, (popled and appeared) b, the number of days in an accounting period. The performance and days of the departmental wagers nod other stock excluded from the entire figure are not taken into account in calculating this result-

Broad gauge : 1.676 metres.

Metre gauge : 1,000 metre. Narrow gange : 0,762 metre and 0.610 metre.

### (c) TERMS IN MOTOR TRANSPORT

### 

Mistan vehicle assistered oceans that a certificate to the effect that armotor which has been duly regimered by a empetent authority in secondance with the provisions of Motor Vehicles Act has been issued. The Act provides that no person shall drive any motor vehicle and no owner of a motor vehicle shall eaute or permit the vehicleto be driven in any public place or in any other place for the purpose of carrying passenger or goods, indees the vehicle is registered and the perificate of registration of the vehicle has not been suppended organicalled and the vehicle carries a registration mark displayed in the prescribed maneret . . -

### 2 Motor Vehiele

Mafor vehicle means any mechanically propelled vehicle adapted for us on road whether the power of propulsion is transmitted thereto from an external. orinternal source and incudes a chassisto waich a body has not been attached. andatrailer; but does not include a vehicle running on fixed rails or a vehicleof a special type adapted for use only in a factory or in any other enclosed premises.

the grant the second of the month of the second

### 3. Public Service Vehicle

रा प्राप्तिक शहर के ब स्थान वर्षा के में हैं हैं। Publicssevice vahicle meansany motor vehicleused or adapted to be used or the earriage of passengers for hire or reward and includes a motor cab, con-

### 1. Green Lewyle's

We Grade valide means any motor vehicle continueted or adapted for use forthearthspeol good or any motor vahiclenot socontructed oradapted when ancifor the carriage of goods rolely or in addition to pamengers. Supplier Con

125 F. F. W. Motor cab manay may motor vehicle constructed, adepted or used to carry of more than six papengers excluding the driver, for hire or seward.

G. Meler Con chlotorear means any motorvehicle other than a transport vehicle omnibut, road-coller, tractor, motorcycleor invalid carriage.

# J. Motor Code

Motor cycle means a two-wheeled mater vehicle, the unladen weight of which inclusive of the uninden weight of any detachable side car, having an extra sauci, attached to motor vehicle, does exceed 600 kilograms.

# Tealler ...

Triller means any vahicle other than a side-car drawn or intended to be diama by a motor vehicle.

S. Plat Size The vehicles of various types held by an Organisation for operation including those proposed to be serapped but not actually scrapped from its fleet.

10. No. of Vehicles in scheduled services. Number of vehicles of each type in Scheduled, and extra services as par Time Tables in force come under this cate-

### 11. No. of Buses under Repairs :---

- (i) Mojor Repairs.—The repairs usually coming under the perview of the Divisional Regional and Central Workshops are reckened as the Divisional Regional and Central workshops are reckened as major repairs. Vehicles under such repairs are said to be under major major repairs.
- major repairs. Vehicles under such repairs are tailed by under the perview of repairs.

  (ii) Minor Repairs.—The repairs usually coming under the perview of depots and starsges are reckaged as minor repairs and vehicles under depots and starsges are reckaged as minor repairs.

  Such repairs are said to be under minor repairs.

  Such repairs are said to be under minor repairs.

  12. Trems spars.—These refer to the number of vehicles held by an organizational repairs and the fleet the vehicles in scheduled services, und thoughter in intracting from the fleet the vehicles in scheduled.

  13. Trems spars.—These refer to the number of vehicles in scheduled.

- 13 Perjor ones statuties un Empje
  - til Reverence Ken -Toril remigerative King, oprested by relicion
  - (ii) Descent the non-Total monorpouncerative first, operated by the patence is not line refers to anchopped K-s, as operated by a rehicle from Depot of Energet 187 and, to furthing points or that operated by relief or including control of the operated by relief or include anythered for none must toother unit for expansion of rach other partners are relief to be considered as dear kms.
  - (in) Geon Kan Total of remanerative and dead Kum.
  - (ic) Departmental Kan,—The Kans operated by the but or truck or kan when digner restal schiele on account of departmental work either than nor hall operation, each as carriage of stores or fuel, survey work, tag chosenes, or structure departmental kilometres.

14. Brisk domewho, page of a vehicle on the road due to mechanical defects for which time to contact is 30 minutes in the case of the inter-city service and 15 minutes or more in the case of city service, it taken as a breakdown

### 15. dalderte:-

- (s) After Accidents involving death or greefous bodily injury and or loss of an identified property exceeding Rs. 500 (white reporting residents under this head, fixed recidents should also be included in the return).
- (ii) Mmer Arcidents involving simple todily loguries or lost of and or damages to property exceeding Rs. 500 but not exceeding Rs. 500.
- lin') Ingritant. Allocher aceldenis.

16. Paretaritis - Frips delayed by more than 15 minutes in inter-city retrict and 5 minutes in city services are to by considered delayed.

### 17. Gross Recerut:--

- (t) Traf.—To represent carnings realised from (a) passengers, (b) cannot contracts, (c) reservations, (d) pareel service and (c) luggers of cartedin the care of prusinger operations; earnings from (a) she duled services; (b) chartered services, (c) contract services as also charges from (a) demarrage and (b) wharfage in the case of goods, operations and camings from fare in the case of taxi operations.
- (a) Others.—To represent the revenue from (a) sale of scrap, (b) advertises ment, (c) out agency services, (d) postal receipts and (e) miscellaneous receipts.

- 10 Corf of Operations It will include actual expenditure on personnels material, depreciation, interest on eaplies and overheads. The cost of material purchased during the period under report has not to be mistaken with the cost of actual consumption during that period,
- 19. Load Factor. It is the ratio of sent Kms, occupied to seat Kms, offered during a period by nu undertaking. After natively, it is the ratio of actual earnings to expected carnings. Earnings from passenger journeys will only be included , leaving the earnings from luggage, mails, etc.
- 20. Cost of personnel. Location is to be the deciding factor, for example, the cost of staff whether supervisory, executive or elerical working in workshop would be debited to the head Maintenance & Repairs' and not under the head Maintenance & Repairs' and not under the head Maintenance & Repairs' and not under the head Maintenance & Repairs' and not under the head Maintenance & Repairs' and not under the head Maintenance & Repairs' and not under the head while staff "Admioistration". This criteria will also be used in working the vehicle staff ration

# (d) TERMS IN FORT TRANSPORT

- 1. D.W.T. (Dead Weight Tonnage) .- It is the weight in long tons of cargo hangen, fuel and stores which a ship carries when fully loaded down to he load line. It represents the actual carrying capacity of a ship.
- 2. G.R. T. (Grois Registered Tonnage) .- It is the entire cubical capacity a ship.
- 3.W.R. T. (Net Registered Tonnage),-The cubic capacity of a ship intended or revenue carrying, 100 Cu. ft. is the standard space taken as the accommolation for one ton of goods.
  - 4. Birth-day .- A day of occupations of a berth (quay or Mooring) by a ship
- 5. Ship day. A day spent in the harbour by a ship.
- 6. Turn round time. Time spent by ship in the process of entering port likeharging cargo, re-loading and leaving.
- 7. Ship day lon. A day lost by a ship delayed (on account of non-availa-7. Supray som
- B. Light-duty. A levy of the Lighthouses, Department on a ship entering in Indian port.

  9. Peri duts.—A levy of portrauthority on a ship.
- 10. Piletge. A portcharge for guiding a ship in or out of a harbour brough channels, passages corther waters by an authorised pilot.
- 11. Buttefar. A port charge on ship for the occupancy of a

- 12. Wherfare.—A portcharge on the ship for all cargo conveyed on overior through a whatforth. It is called harbour dues, in Madrax and landling in Visiahapatham.
  - 13. Granage. The hire charges for providing a port crane for cargo handling.
- 14. Lightrage.—The charges of the owner of barges and lighters for the transhipment of a ship's cargo in the strim (instead of alongside berth)
- 15. Trefic Flow.—A vector with magnitude and direction, such as pair embarked/disembarked or cargo exports / imports.
- 16. Trafe.—A scalar with only magnitude, but no direction such as the sum total of exports and imports of cargo.
- 17. Gargo traffic at ports.—Excludes hunker coal; and bunker oil; unles otherwise stated.
- 18. Output-rates, of labors.—Cargo-handling rate of port of dock lahour per shift of 8 hours (excepting Bombay Port where it is taken for 7 hours), for hoos gang.
- 19. Output per berik day, ... Total tonnage handled distributed over the total number of berth days.
- 20. Jelly chi bunker.—It is a port facility for a ship in unprotected water with a landing facility and unassered draft.
  - 21. Mooring .- It is a port facility with assured draft but no landing facility
    - 22. Buth.-It is port facility with assured draft and landing facility.

### (e) TERMS IN SHIPPING

l. Lösk Line .			The outer line on the hody of a ship upta which she can submerge, in water with
(m ² ) 1			safety. It varies according to the seasons and waters in which she plies.
2. Draft		•	The depth necessary to submerge a ship to her load line.
3. Displacement lig		٠	The weight of a ship without stores, bunker fuel or cargo.
4. Displacement Lo	aded	,	The weight of a ship plus stores, bunker

5. Gargo fourage	It refers to the earning eargo of a ship and is expressed as either a weight or measure ment. The weight ton to the USA is the
게 가를 된다 하다는 그 그	short top of 2000 pounds (or 40 cubic
<b>计算程数</b> 表	. feet) in the British countries the long ton
	of2240 pounds (or 40 cubic feet), arki

Ballast . . . Any material intended to provide stability to the ship.

metric ton of 1000 kg., or cubic metre.

generally engaged on trade routes where large volume of passenger or cargo traffic

- 7. Bunker . . . Ship-space for storing fuel (coat, oil etc.).
- Ships that ply on a regular scheduled service between groups of ports. The ship of a liner company are common carrier offering cargo space or passenger accomodation to all shippers and passenger who require them. Aliner company is
- is available.

  Ships designed to carry general cargo (with a limited passenger accommodation operating on fixed routes with fixed sailing schedules and serving a group of ports.
- 10. Tramps (or general traders)

  Cargo ships operating in all parts of the world without a fixed route and sailing schedule inscarch of primarily bulk cargo carried generally in ship-loads.

  A specialised cargo ship designed to deal
- A specialised carge ship designed to deal with bulk liquid cargoes permitting quick loading and discharge, thereby ensuring fast turn-rounds so essential to good utilisation. They generally return in ballast as it is seldem possible to obtain return cargoes.

  A bulk-cargoship designed to carry ore and o'lenabling here, thereby to be loaded in
- 12. Oil Ore and bulk carrier

  of lenabling here thereby to be loaded in both directions.

  Generally a coastal ship designed to carry coal.

ថលវ

14. Coaster	•	An all purpose cargo carrier, operating around our coasts. Both coasters and colliers are subject to serve completion from inland transport.
15. Roll-on roll-of ressel		Itisfrequently called a vehicle ferry. It is designed for the conveyance of road haulage vehicles and private cars. At each terminal ports, a ramp of link span is provided cnabling the vehicle to drive on or off the vesiels, thereby eliminating cranage and targo handling (and also pillerage) and permitting a quick turnround of the ship
16. A liner Conference .	• •	An organisation whereby a number of ship- owners offer the green easier of a given sta route on conditions agreed by the members. A conference line is a vessel of a ship-owners belonging to such a shipping conference.
17. Voyage abel Time charter to	atès .	A voyage character is a contract for a specific tovage, while at ime charter is for a period of time which may cover several voyages. A voyage charter rate is thus a short term rate and time charter rate is a long term rate.
B. Stowage factors .	• •	<ul> <li>Slowagefactoristhe space occupied in cu- bicfectin the ship's hold by one ton of cargo (2240 lbs.).</li> </ul>
		Stowage plan is an outline plan of the ship upon which is entered the stowage position of all cargo. It helps the steed dore in charge of the discharging and loading and responsible to the Masterof the ship to inske stowage arrangements in advance. The stowage factors for certain commodities may be given as follows:
		ute of pack- Stowage Ship-type to which sui- ing factor table for carriage
(1)		(2)(3) (4) ¹
Apples Ca	sesorb	barrels About 80 Fruits carriers/cargo liners.
		4

*		
(2)	(3)	(4)
2 Butter Cases, baxes, or	55∞60	Cargo liners with re- frigeration facility.
bags. 3. Coment Bags, containers,		Most suitable for single deck vessels.
orin bulk.	35≕50	Tramps/coast-wise
		single deck, large hatches and self trimming holds.
The strike of the strike strike the strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike strike s	60	Cargo liners.
5. Coffee Bays/chests 6. Confectionary Cartnns	High stn- wage fac-	m a
	tnr	Shelter deck vessels.
7. Copra Bales/Bags/Bulk	75=80 50=100	Shelter deck vessels.
8. Cotton Pressed Bales	High stow	Marrels with refri-
9. Éggs Crates/cases	age factor.	gerator accommo- dation.
	100 == 150	Shelter deck vessels.
10. Esparte grass Bales 11. Fertilisers Bulk/Bags	Varies will variety.	h Single deck vestels when conveyed in bulk and tween deck
		dematched in bags.
	50	Tween deck vessels.
12. Flour Bags	Approx 50	Single deck yessels with self-trimming holds
(Wheat malet & rye) (2) Bags	(50+10% for bags).	
14. Lightergrains (1) Bulk	55+85	Single deck vessels with self trimming
(barely, oats & lin- seed).	55_85+ 10% for ba	gs. Do.
15. Jute Bales	58	Liners.
16. Oileakes Bulk Bags	55°	Single deck vessels when, carried in bulk tween deck
	•	tehed in bags.

			(2)	(3)	5、24. (4) (4)
7. Oranges	•		Crates	About 65-75	Tween deck vesse
18, Ores .	•	•	Bulk .	12-30	Trams/specialised single deck ore ca riers.
9. Rice			Bags	50	Tween deck vesse
0. Rubber	•	•	Bags/bales/cases	65-75	Liners (Latex in deeptanks
l. Salt .	•		Bulk/Bags	35	Single deck vessel
2. Steel Rail	•	٠	Loose/Bundles	12	Single deckivessel when despatchedin bulk consignment Cargo liners when despatched in smal consignments;
3. Sugar	•	•	Bulk (raw) Bags (raw & refined).	40-50	Single deck sural carriers when deck restel when in bags
4. Tca .	•		Lined Cases	About 65	Liner tonnage
5. Timber, woods (To Mehegany props) DBB (Deo tens & Bo	, Pit ls, Ba		<b></b>	35-30 60 About 90	Single deck three will sland-type will decks and abroad beam.
6. Tobacco	•		. Hogs/heads/ Bales/Cases	, it	Tween deck cessel
7. Wines			Drums/Barels		Cargo liners
28. Wool	•	•	Pressed bales large bags.	180-280	Shelter deck versel

APPENDIX II

# SELECTED TECHNICAL PAPERS RELATING TO ROADS PUBLISHED BY. THE INDIAN ROADS CONGRESS

BY THE INDIAN ACCE		
Signature of Paper	Name of Author	I.R.C. Journal No.
No. No.		(4)
	(3)	
S(1) (3) (3) (2) (3)		
I. Roads in General  I. Safe Wheel Load for Indian Roads  Ribbon Development  The board Classification of Traffice and Contributory Clauses of Weal and Tear of Roads.  GyeleTracks  Adequacy Assessment of Highways  Clystal Pattern formula for Indiagrated Highway Planning in Indiagrated Highway Planning in Indiagrated Highway Planning of Highway Planning The Web and Lattice Pattern.  II. Road Surveys, Design, Layout and Gold Optimum weight of vehicles on Enumerical Roads.  Calculation of the Structure of Roads, Fundamentals of Highway Need	A.S. Trollip Sir Kenneth A. chell  Fatch Chand D. G. Bhagat K. G. Mital  D. C. Bhagat  Retra K. G. Mitchell  Brigadier L  Anderson D. G. Bhagat	X***.3 & 4 XXIII-1 & 4 XXIV-2 & 5 XXIV-4 & 5

Bound Volume ont of stock.

(1)	(2)	(3)	(4)
I	II. Soil and Earthworks, Soil Scierce as and Earth Surface, Soil Stabilization, e	adopted to Road Fourda	itior, Banks
1.	Earth Road Construction and Main- tenance by Machinery.	G. W.D. Breadon	1**
2.	Roads in Rural Areas (village roads)	Chowdhary Lal Chand	II**
3.	Road Construction in Black Cotton Soils	A. Nageswara Ayy er	X***-1 & 4
4.	Road Construction Practice in Sandy Areas in Madras	K. Ramaswamy Reddy & S. Ra- dhakrishnan	XXXVII-3
5.	A Resume on the Stabilization of sand,	H L. Uppal & B. D. Bhalla	XXIV-2
I	V. Water-Bound Macadan Roads andother I and other forms of Trackways.	Low Çost Roads such as	Meorum, Bris
1.	GravelRoads	N. N. Ayyangar	II**
2.	Ruads under Local Bodies and How to Maintain them.	Fatch Chand	IV**
3.	Some Notes on the Maintenance of Water-Bound Macadam	A. L. Rao	VIII**
4.	Low Cost Roads for the East .	Col.F.L.D. Wool torton	. XII-3 & :
mey.	V. Tar and Bitamen Surfacing Carpets, etc		
أنوي	Asphalt Roads	G. G. C. Adams	1*
_	The Road Problem in India with some Suggestions	Col. C. E. Sopwith	II** ı
3.	An Economical Substitute for Water bound macadam	A. L. Rao	VI**

^{*}Awarded Medal.

^{**}Bound Volume out of stock.

(2)	(3)	(4)
4. Revised specifications for Bitumen Roads in the Punjab.	Abdul Azi z	VIII**
5. Modern Development in Road Tar Research.	P. M. Verma	XXVII-2
6. Fundamentals of Flexible Pavement Design.	N. Sen	XXIV-4
VI. Concrete		
1. Trackways for Rural Road Develop- ment.	Sir K. G. Mitchel	VII**
2. A Review on "Modern Road Cons-	Lt. Co. W. P. Andrews.	жш**1
3. Cement Grounted Roads	E. A. Nadirshah	XIX-2
4. Report of the Panel Discussion on cementeonerete Road Surfacing.	Bh. Subhamju & BY. C. Gokhale.	· XXIII-2
5. Investigation into causes of eracks in certain concrete pavements.	S. K. Bose	XX IV-1 & 5
VII. Miscellaneous Material and Process, Ag	gregates, Tests, Sizes, et	e.
1. A Report on Bridges and Bridge En-	S. I. Bazaz	XVI**-3
2. The Investigation, Design and construction of the Cauvery Bridge at Pugalur.	K.K. Nambiar & K. Namasivayam	XVII**-1
3. Bridging India's Rivers—An account of some of the Bridges built under National Highway Scheme.	Indian Roads Congress.	XVII**-3
4 The Design of Small Bridge and Cul-	Goverdhanlal	XVII** 2 &4
Timber Bridges in Kashmir .	V.B. Manerikar & I.K. Naik	XX**-2&
6. Indian Bridges	Y. Guyon	.XXI**.4

^{**} Bound Volume out of stock-

(1)	(2)	(3) : (4) - 4
•	The Investigation, Design and construction of Submersible Bridges.	D. Johnson Victor : XXIV**-
8.	Ultimate Load Carrying eapacity of composite Beams.	P. C. Varghese XXIV-3
9.	Studyon the Stability of Well Founda- ion for Major Bridges	A. Banerjee & XXV**.2 & S. Gango Padhyay
10-	Standard Soccifications and Code of Practice for Road Bridges, Section VI—Compositive Cons- truction for Road Culverts and Medium Span Bridges.	Bridges XXXVI**-2. & Committee
11.	Rubber Bearings for Highway Brid- ges.	A.K.Mullick XXIX
	VIII. Road Maintenance and Road Usages	
1.	Ways and Means of Improving the Bullock-Cart.	T. L. W. Moss IIIe*
2.	SteelType Problem Unfolds	W.L. Murrell VII*
3.	Proposals for an Al India Survey of Bullock-carts by means of Ran- dom Sampling.	J. Vvsugar VIII*
4.	Maintenance of Grave I (Moorum) Roads under Heavy Traffic.	B. B. Gupta X** 2 2 4
5• -	Widths of Highway Pavements	Specifications XI**-1 & Standard Committee
6.	Glosery of Highway Engineering	Do. XIV**.3 &
~ 7	· Glossary of Highway Engineering Terms and Hindi Equipments.	Do. XIX**.3 &
	IX. Administration and Finance	
-	<ul> <li>Roads in India and Australin—Our Difficulties and some Suggestions.</li> </ul>	L Marrell VI
2	· Organisation of Bridung Activities	. T. R. Nangea XV-2&

^{**}Bound Volume out of stock

(1)	(2)	(3)	(4)
	Plant, Machierry and Apparatus		XII-2
	Technical Note No. 1-Selection of Plant for Collection and Loading	Col. R. S. Daiby	X11-2
	- of Shingle. Technical Note No. 2A note on Road Rollers with particular re-	Do.	ZH**-1
3.	Technical Note No.3 Earth-Move	Central Roads organisation	XIV-3
	ing Machinery for Roads		XV-3
	Rollers manufactured in thurs.		XXI-3 & 3
	Requirements of Bitumen for Blacktopped Roads.		

^{**}Bound Volume out of stock.

#### XL SELECTED PAPERS OF I.R.C. ON SPECIFICATIONS STAND-ARDS, CODE OF PRACTICES ETG.

#### A. Highway Kilometre Stones, Sign, Boards Etc.

1. Type Designs for Highway Milestones (IRC :1-1953 First Repr int).

,

- 2. Route Marker Signs for National Highways (in Metric Units) (IRC 2-1968 First Revision).
- 3. Type Designs for Furulong and Boundry Stones (IRC :4-1955).
- 4. Type Designs for Highway Kilometres Stones (IRC:8-1969 First Revision).
- 5. Type Designs for Boundry Stones (IRC: 25-1967in Metric Units).
- 6. Type Designs for 200-Metre Stones (IRC :26-1967).
- 7. Standard Letters and Numerals of Different Heights for Use of Highway Signs (in Metric Units IRC :30-1968).
- 8 RouteMarker Signs for State Routes (in Metric Units IRC:31-1969).
- 9 Standard for Vertical and Horizontal Glearances of Overhead Electric Power and Telecommunication Lines as Retated to Roads (in Metric Units IRG: 32—1960).
- 10. Code of Practice for Road Markings (with Paints IRC: 35-1970
- 11. Traffic sign (in Metrie units)

#### B. Bridges and Culverts

- 1. Standard Specifications & Code of Practice for Road Bridges Section I-General Features of Design (in M-KS-4th Revision IRC:5-1970).
- 2. Standard Specifications & Code of Practice for Road Bridges Section II—Loads and Stresses (In Metric Units) (Second Revision IRC:6—1966)
- 3 Recommended Practice for Numbering Bridges and Culverts (IRC: 7—1959).
- 4. Design Criteria for Prest Concrete Road Bridges (Post-Tensioned (2.18-1965).

- 5. Standard Speifications & Code of Practice for Road Bridges Section III Cement Concrete (Plain and Reinforced IRC :12-1966).
- 6. Standard Specifications & Gode of Practicular Road Bridges Section
- V- Steel Road Bridges (IRC :24-1967). 7. Standard Specifications and Code of Fractice for Road Bridge: Section IV-(Brick Stones & Block Masonry IRC: 40-1970).
- 8. Paper No. 167-"Design of SmallBridges & Culverts" by
  - 9. Paper No. 238 _"Considerations in the Design & Sinking of Well Toun-
  - for Bridges Picts' by B Balwant Rao & C. Muthuswany
- 10. Bridge Loadings Round the World. 11. Modern Trends in the Design and Construction of Prestressed Concrete Bridges Around the World.
- 12. Bridging India 'Piers' Volume I.

## C. Cement Concrete Roads

- 1. Standard Specifications & Code of Practice for Construction of Concrete
- 2. Tentative Specifications for 4 cm. (2 in.) Asphalue Concrete Surfaces Course, (IRC :29-1968).

## D. Black Top Roads

- 1. Tentative Specifications for Priming of Base Course with Bitumirous (IRC:16-1965).
- 2. Tentative Specifications for Single Coat Bituminous Surface Dressing
- 3. Recommended Practice for Bituminous Penetration Macadam (Full
- 4. Tentative Specifictaion for Two Coat Bituminous Surface Dressing
- 5. Tentative Specifications for Bituminous Macadam (Base & Birder) Course (IRC: -23-1967).

## E. Water Bound Macadam Roads

1. Standard Specifications and Code of Practice for Water Bound Macadam and Surface Treated Water Bound Macadam (First Reprint) (IRC:19-1956).

#### T. Traffic Census Sprveys

- 1. Traffic Conras on Non-Urban Roads (IRC : 1960).
- Standard Procedure for Evaluation and Condition Surveys of Stabilised Soil Roads (IRC: 33-1969).

#### G. Wayside Amenities

- 1. Recommended Practice for Location and Layout of Roadride Motors Fact Alling-crackering Stations (First Revision IRC: 12-1-1967). Out-recopy Twords omitted).
- Recommended Peacification Borrowpits for Road Embankments Contracted by Manual Operation (First Reprint IRC:10-1951):
- 3. Recommended Practice for the Design and Layout of Cycle Track (IRC:11-1962).
- Tentative Specifications for the Contraction of Stabilised Soil Road with Soft Aggregate in Areas of Moderate and High Rainfall (IRC): 2—1907).
- 5. Recommendations for Road Construction in Waterlogged Areas. (IRC: 34-1970).
- 6. Recommended Practice for the Construction of Earth Embankments lot.
  Road Works (IRC : 26-1970).
- 7. Guidelines for the Design of Frexible Pavements, (IRC : 37-1970).
- .8. Design Tables for Horizontal Gueves for Highways, (IRC :38-1970)
- 9. Standardsfor Road-RailLevel Grossings. (IRC: 39-1970).
- 10. A Policy on Roadside Advertisement.
- 11. Geometrics of Roads.
- . 12. Road Drainage Practices Around the World.
  - 13. A Policy on Roadside Advertisement.

### APPENDIX III

## (1) IMPORTANT MEASURES AND CONVERSIONS

Wasake

1 Tonne of jute

Note - Measurements by weight would be of interest to the port while measurements by volume to the ships.

Weight							
1 Tonne						•	-0.98420 long ton.
1 Long ton							= 1-10231 short tons
1 Long ton					-		=1.01605 Tonnes
1 Short ton	•						=0.90718 Tonnes
	•	•		•			
Linear							≈0.62137 Mile
1 Kilometre	:			•	•	•	=1.6093 kilometres
1 Mile				•	•	٠	
1 Cm.						•	-0.393701:nch
	,	•			• •	•	-2.54 cms.
Area							
1 Squarcki	lomet	**			•		==0.38610 square mile
1 Squareki			•				=100 hectares
-	tomet	IC	•				=2.471 acres
1 Hectare		•	•	•	•		
Volum-							. =1 Tonne (by weight)
1 CubicM	ctreo	fdisti	lied t	watcı	•	•	=1000 litres of water (by volume)
							=35.31 cubicfeet.
							= 33°31 custores
1 Gallon					•	•	_4.546 litres.
1 Balc of	otton	int (	3921	bs)			=0.17781 Tonne of cottonline
1 Tonne o							=5.624 bales of cotton lint (392
1 TOTHE O	LCOLLO	*** ***					1bs.) =0.181486 Tonne of jute
1 Balc of	inte (	10015	s)	•	•	٠	=5.5116 balcrofjute (4001ba)
1 Tauan							. *20100 DEIC-OLIGIC (40010E)

## (2) CONVERSION RATIOS BETWEEN AGRICULTURAL RAW MATERIALS AND PROCESSED PRODUCTS

Rice			
Rice(cleaned) production		•	. =2/3 of paddy production.
Gotton			
Cottonlint production .	•		. =1/3 of kapas production.
Cottonseed production	•		. =2/3 of kapas production.
Gottonseed prodeution	•	•	- 2times of cotton lint production
Juse			
100 yards of hessian .	•		<ul> <li>⇒54 lbs of raw jute.</li> </ul>
4148 yards of hassian	•	•	. = I ton of raw jute.
			=5.6 bale of raw jute of 4001bs each).
1 ton ofsacking	•	•	. =1.11 tons of raw jute.
			=6.22 bales of raw jute (of 400 lbs. each).
1 ton of hessian, sacking,	t.c.	•	= 1.05 tons of raw jute. = 5.9 bales of raw jute (of 400 lbs. each).
Groundrut			
Kernelsto nuts in shell			. ==70%
Oil to nuts in shell .		•	· =28%
Oil to kernels crushed .	•		. =40%
Cake to Lernels crushed	•	•	. =60%
Lases			
Oil toseeds crushed .			. =33%
Take to seeds crushed .			. =67%
Seed			·
Oil to seedi crushed.			na-r
Cakes to seeds crushed.	•	•	. =37%
Caresto seeds crushed	•	•	. = 63%
		C	

Cotton med

Compute Copra to nutt -5773 puts , m612 Oll to Cores crashed . . . . . m. 33% Cake to copra crusticit Cathryguer 

Lox

. -65.0% of richiac 

## GRICULTURAL RAW

of rais

#### ddy producti SOURCE OF DA

- 1. Ministry of Finance, Govt. of India.
- 2. Central Statistical Organisation, Deptt. ofana
- [cotton lint
- S. Planning Commission, Govt. of India.
- 4. Director General of Technical Developmen
- 5. Chief Controller of Imports & Exports. G
- 6. Ministry of Railways, Govt. of Iodia.
- 7. Directorate General of Civil Aviation, Gov
- 8. Director General of Shipping, Bombay,
- 9. Deniment of Petroleum & Chemicals, Go
- 10. Major Port Trusts.
- 11. State Port Officers.
- 12. State/Union Transport Undertakings.
- 13. Hindustan Shipyard Ltd., Visakhapatnam.
- 14. Central Inland Water Transport Corporation Ltd., Calcu
- 15. State Public Works, Departments,
- 16. Transport Departments of State Govt / Union Territorie
- 17. State/Central Budgets.
- 18. Saipping Development Fund Committee, Ministry of Sr 200108 port, Govt. of India.